



PRODUCT CATALOGUE PROFESSIONAL BUILDING PRODUCTS 2018

WALLS & FACADES _

WALLS & FACADES

Walls and Facades are an essential part of the construction. If well made, they will provide strength, durability and an aesthetically pleasing building which will offer improved comfort of living and increase energy savings.

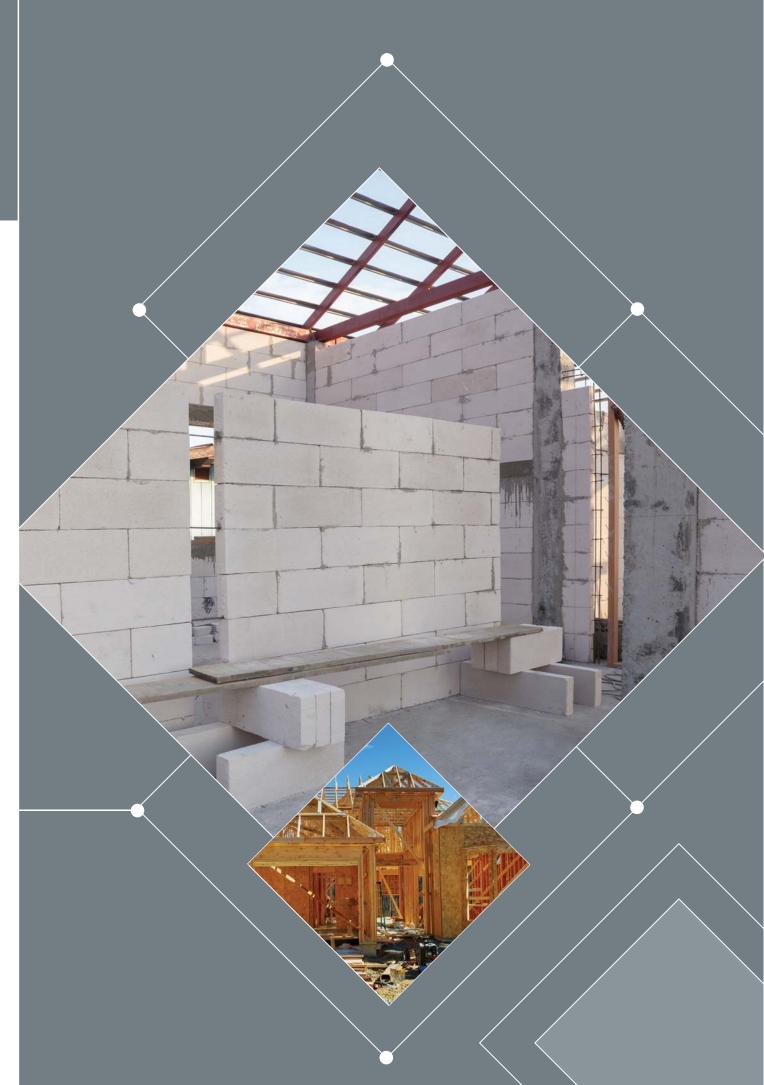
Selena offers a wide portfolio of products for Walls and Facades including solutions for bricklaying, plastering, external and internal insulation, joints sealing and products for bonding and anchoring on facades and walls.

With innovative solutions, prepared by experts, Selena portfolio meets all professional requirements. The combination of traditional solutions with modern technologies and components allows us to improve the buildings' performance and make construction work easier and faster. This means guaranteed satisfaction for everyone involved in the construction from professional contractors to investors.

Construction of Walls

Facade Solutions

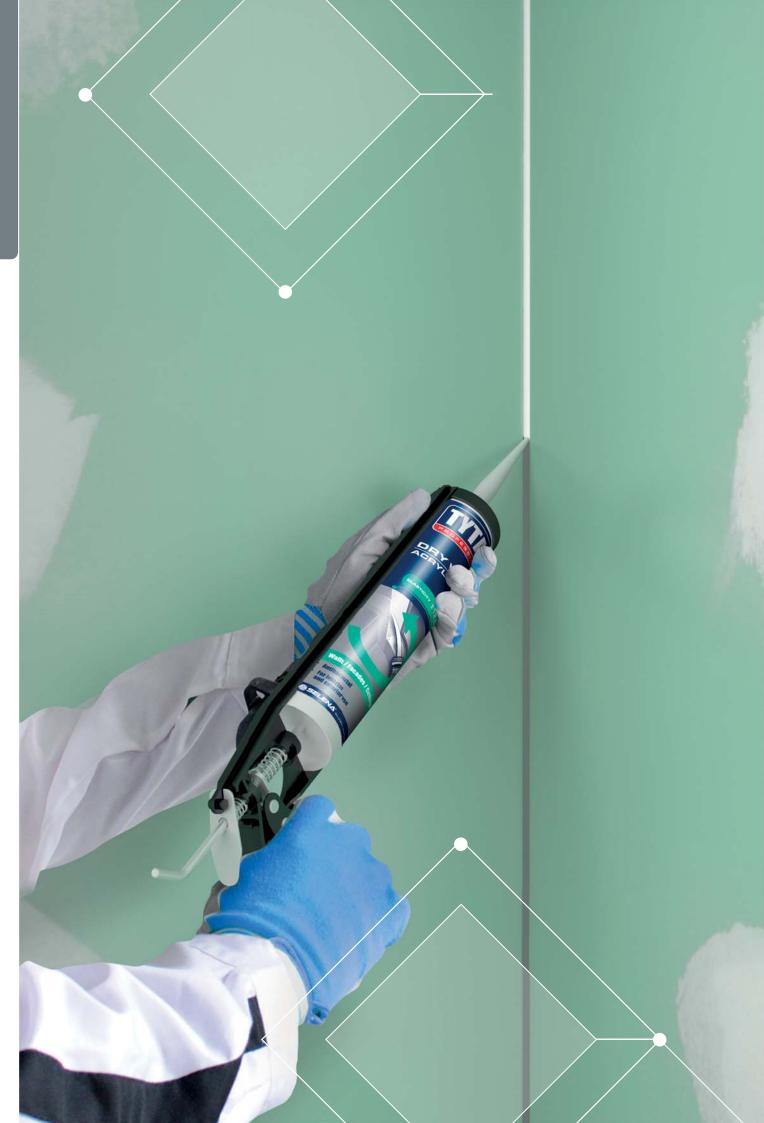
Facade Sealing, Bonding & Anchoring



CONSTRUCTION OF WALLS

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CONSTRUCTION OF WALLS

Given the fundamental role of a wall it is important that it should satisfy all functional performance requirements adequately. The main requirements for a wall are: strength, stability, weather and moisture resistance, durability and resistance.

Tytan Professional portfolio was developed to meet all necessary parameters and to work with a variety of materials and technologies of walls.

Masonry walls

The most popular and traditional way of erecting walls. They are made of individual units of bricks, stones, marbles, granites, concrete blocks, tiles which are held together by binding element. Historically, the binding element for the masonry walls has been mortar, since it has been in use for centuries. Selena as a pioneer in new technologies offers a new solution: Foam Adhesive for Bricklaying - a tested solution that makes **the bricklaying work much faster, easier and cleaner.**

Choosing the right binding element for masonry wall depends on the level of calibration of the masonry unit. In case of calibrated materials with a block deviation below < 2 mm, it is possible to use Foam Adhesive or a Thin Bed Mortar. Calibrated materials are usually made of Aerated Concrete, Ceramic or Silicate.

Non-calibrated materials have to be bonded using mortar, since the joint between blocks is higher than 3 mm.

Below are the joint thicknesses achieved by using each kind of bricklaying technology. **The lower the joint the fewer thermal bridges.** That means reduction of heat loss in the construction.

Bricks:	Uncalibrated	Calib	rated
Type of Binding Technology	Traditional Mortar	Thin Bed Mortar	Foam Adhesive for Bricklaying
Joint Width	10-30 mm	1–3 mm	0,5–1,5 mm

Drywall

An option for raising walls without the need for mortar or mason units is by using drywall.

Drywall or dry building is a fast and efficient way of building walls. Instead of bricklaying with masonry units, composite sheets made of wood, gypsum, cement or other materials are fixed to a frame made of wood or metal.

The main advantage of such system is the time saved on the construction by eliminating mortar, easiness to finish the wall and the simplicity of repair and modifications.

Selena has developed a portfolio for the different stages of building with drywall:

Bonding walls: Adhesives based on Polyurethane that can be used to bond the sheeting boards to the main structure improving thermal efficiency of the wall and preventing squeaks and nails pop.

Finish and Sealing: Acrylic and Hybrid sealants that can be used for repairing cracks on the boards or to seal joints in the wall. These products are paintable and guarantee an aesthetic finish of the wall.



FOAD for Bricklaying – a new way of building

The masonry wall structure is made with two components: Masonry units and mortar. The thickness of the joint is always the coldest part of the wall, this is caused by the lower thermal characteristics of the mortar. That's why it is recommended to use Thin Layers. The latest product developed for this is Foam Adhesive for Bricklaying. A product based on polyurethane dedicate for bonding masonry units, reducing thermal bridges and simplifying the construction process.





Perimeter walls in precast building







Load bearing walls in family houses



n Average house 285 m² of wall surface (load bearing wall).

	Working	efficiency	
	Thick layer mortar	Thin layer Mortar	FOAD for Bricklaying
Weight needed	11 250 kg	2 375 kg	48 kg
Preparation time	10 – 20 min	10 – 20 min	1 min
Building time	14 days	9 days	7 days
Fully cured and ready for plaster	up to 28 days	up to 28 days	24 h
Temperature application	-10°C to +30°C	+5°C to +30°C	+5°C to +30°C
	Energy E	Efficiency	
Joint width	10 – 30 mm	1 – 3 mm	0,5 – 1,5 mm
*Thermal resistance (U) 44 cm	2 – 3 W/m ² K	1 – 1,5 W/m²K	0,1 W/m ² K
**Water vapor permeability (μ)	15 wet / 35 dry	35 wet / 35 dry	60 wet / 60 dry

The higher the thermal resistance the lower energy efficiency of the building.
 Air and Vapor are carrier of heat. Higher permeability mean lower energy transfer and higher efficiency.



Certified and tested:

- Technical approval for different materials such as TLMB AAC, silicate and ceramic block
- Confirmed classification of wall fire resistance on load and non load bearing walls (EN 13501-2:2008)
- Resistant for seismic excitations
- Stable adhesion strength under different weather conditions
- Durability of joints > 100 year





Foam Adhesive for Bricklaying



Foam Adhesive for Bricklaying is an alternative for cement-based thin bed mortars. It is suitable for bonding a wide range of calibrated materials such as autoclaved aerated concrete, calibrated ceramic bricks and silicate blocks.

APPLICATIONS:

- Load bearing walls
- Partition walls .
- Cellular concrete, calibrated ceramic . bricks and silicate blocks

BENEFITS:

- 24 h full wall resistance
- Stronger than traditional mortars .
- Resistant against fire and seismic activity
- Reduction of thermal bridges
- Hundreds of years of durability Cleaner and faster bricklaving
- Tested and approved for: AAC, calibrated . ceramic and silicate block
- Can be applied in below zero temperatures

- Yield: up to 12 m²
- Application temperature: -10°C to +30°C .
- Can temperature: +10°C to +30°C .
- Initial cure: 2 h .
- Full cure time: 24 h .
- Correction time: ≤ 3 min .
- . Coefficient of water vapor permeability (μ): 60/60
- Coefficient of thermal conductivity: (λ) < 0,036 W/mK
- Shelf life: 12 months

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Foam Adhesive for Bricklaying	750 ml	Can	12	624











CONSTRUCTION OF WALLS

TEO 224

CIENKOWARSTWOWA ZAPRAWA MURARSKA

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TEO22

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Thin Bed Mortar

Thin Bed Mortar for bricklaying of interior and exterior walls of calibrated materials such as autoclaved aerated concrete blocks, sand-lime (silicate) blocks and calibrated ceramic bricks with thin joint (2-6 mm). It is also recommended for other works in the construction industry, for example smoothing, filling cavities. It has excellent adhesion to various construction substrates. For applications in residential and industrial construction.

BENEFITS:

- For aerated concrete blocks laying
- For silicate blocks laying
- Vapour permeable
- Flexible and hydrophobic thin joint

TECHNICAL PARAMETERS:

- Mixing ratio: approx. 6,5 l of water for 25 kg of dry blend
 Layer thickness: 2–6 mm
- Max. size of the aggregates according to the standard: < 2,0 mm
- Bulk density: 1 630 kg/m³ ± 10%
- Bulk density of fresh mortar: 1 660 kg/m³ (± 5%)
- Compressive strength: ≥ 10 N/mm²
- Initial shear strength: 0,3 N/mm²
- (tab. value) Thermal conductivity coefficient
- Thermal conductivity coefficient (λ10, dry): 0,76 W/mK (tab. value)
- Adjustment time: up to 10 mir
- Adjustment time: up to 10 min
 Application temperature: + 5°C to +25°C
- Application temperature: + 5°C to +
 Colour: grey or white
- EN 998-2 TYPE T, M10

Product name	Content	Packaging	Pieces per pallet	Colours
TEO 224 Thin Bed Mortar	25 kg E	Bag	48	Grey
				White

TEO 234

Clinker Mortar

Clinker Mortar is designed for bricklaying facades, external and internal walls and other architectural elements made of clinker, such as: fences, chimneys. The product can be used for pointing clinker tiles up to 30 mm thickness. It is a composition of cements, lime dusts and mineral aggregates and premium quality modifying additives, which makes the mortar workable, easy and convenient to use. It features very good adhesion to the substrate, and high resistance to frost and water.

BENEFITS:

- For clinker brick laying
- For pointing tiles
- Decreases the possibility of salt efflorescence
- Vapour permeable
- Frost and water resistant

- Mixing ratio:
- x 0,14 | of water for 1 kg of dry mortar
 x 3,5 | of water for 25 kg of dry mortar
- Bulk density of fresh mortar:
- 1 630 kg/m^{3′}±10%
- Compressive strength: ≥ 10 N/mm²
- Flexural strength: ≥ 3 N/mm²
- Initial shear strength: 0,15 N/mm²
- (tab. value)
- Working life: up to 2 h
- Layer thickness: 5–25 mm
- EN 998-2 TYPE GP, M10 TEO 234

Product name	Content	Packaging	Pieces per pallet	Colours
TEO 234 Clinker Mortar		Bag 48 Antra		Grey
			40	Graphite
	25 kg		Antracite	
				Brown

n	TYTAN	T
TEO231 CO CHINKIERU	ZAPRAWA DO KLINKIERU • ceneriłowowopienna TRWAŁY / mocny ELASTYCZNY/ wyłazymoły ODDYCHAJĄCY / naturchy	ZAPRAWA DO KUNNTERU
2	Wydoinold do 1,7 m ² SYSTEMY ZAPRAW D B O EFEKT MUROWANY	S XX



Scratch Coat



Scratch Coat is a cement based mortar applied directly onto the substrate before the application of finish layer of Tytan Building System. It is recommended for the mineral substrate preparation which will receive cement-lime plaster machine or manually applied. It improves the plaster adhesion to walls and ceilings, and levels the substrate absorption.

BENEFITS:

- Improves the adhesion to substrate
- Increases the efficiency of the next layer
- Vapour permeable
- For mechanical or manual application

TECHNICAL PARAMETERS:

- Mixing ratio with water: 5,5–6,0 l for 25 kg of dry blend
- Aggregate size: up to 1,0 mm
 Application temperature:
- +5°C to +25°C Compressive strength: CS IV
- Flexural strength: ≥ 2 MPa
- Consumption: 4–8 kg/m²
- Consumption time: max. 3 h
- Colour: natural grey
- EN 998-1 TYPE GP, CSIV, W2

Product name	Content	Packaging	Pieces per pallet
Scratch Coat BS31	25 kg	Bag	48

Light Machine-Applied Plaster



Light Machine-Apllied Plaster is a component of Tytan Building System for internal or external plastering, with special emphasis on porous substrates such as autoclaved aerated concrete and silicate blocks. It is characterized by very good adhesion, long processing time and high operating comfort.

BENEFITS:

- Cement-lime plaster with light filler (contains perlite)
- Fine-grain
- High efficiency
- Vapour permeable
- Flexible and hydrophobic

- Mixing ratio with water: 5,0-5,5 l for 25 kg of dry blend
- Aggregate size: up to 0,5 mm
- Application temperature
- (base, air, material): +5°C to +25°C
- Consumption: 1,1 kg/mm/m²
 Min layer thickness:
- ceiling: 8 mm - wall: 8 mm
- facade: 15 mm
- Max. layer thickness:
- ceiling: 15 mm
- wall: 20 mm
- EN 998-1 TYPE GP, CSII, WO

Product name	Content	Packaging	Pieces per pallet
Light Machine-Applied Plaster BS33	25 kg	Bag	48



CONSTRUCTION OF WALLS

TEO 124

Levelling Mortar

ZAPRAWA WYRÓWNUJĄCA E012 Û TRWALY/ m A ELASTYCZNY/ AJACY/ SYSTEMY ZAPRAW T E O

Levelling Mortar is recommended for local substrate repairs – allows for filling cavities, joints, dents and other local irregularities of the surface, both in walls and floors. This levelling mortar can also be used for leveling substrate (walls and floors) before the application of ceramic, gres tiles, etc., thermal insulation boards, other construction works.

BENEFITS:

- Layer thickness: 2–15 mm
- . As substrate under tiles, finishing coats, plasters, subfloors
 - Filling joints between prefabricated elements
- and gaps in concrete
- Reconstruction of shapes of concrete elements
 - For horizontal and vertical substrates

TECHNICAL PARAMETERS:

- Mixing ratio with water: - 4,5–5,0 l for 25 kg of dry blend
- 0,18-0,20 l for 1 kg of dry blend Ready-for-use time after mixing
- with water: to 2 h Application temperature: +5°C to +25°C
- Temperature resistance after full cure: -25°C to +60°C
- Application thickness: 2–15 mm
- Compressive strength: $\geq 10 \text{ N/mm}^2$
- . Flexural strength: ≥ 2,5 N/mm²
- Bulk density 1 250 kg/m³ \pm 10%
- EN 13813 CT-C10-F2,5

Product name	Content	Packaging	Pieces per pallet
TEO 124 Levelling Mortar	25 kg	Bag	48

Styro 753

Foam Adhesive

Styro 753 is recommended for bonding insulation boards to facade walls, roofs and foundations internally and externally. The adhesive enables filling gaps between the boards, thus sealing the insulation envelope to prevent heat loss.

TVTA D N LY R

APPLICATIONS:

- Facade walls, roofs, foundations
- EPS, XPS, PUR, mineral wool .
- . Sealing gaps between insulation elements

BENEFITS:

- Excellent insulation properties
- Thermal bridges reduction .
- . Strong and durable bond
- Water-resistance
- Low pressure formulation no deformation

TECHNICAL PARAMETERS:

- Yield: up to 14 m²
- Application temperature: 0°C to +30°C .
- Can temperature: +10°C to +30°C .
- Open time: ≤ 5 min
- Correction time: ≤ 15 min
- .
- Anchoring time: 2 h .
- Coefficient of thermal conductivity: (λ) < 0,036 W/mK
- Fire rating: B3/F (DIN 4102/ EN13501-1:2008)
- Shelf life: 12 months

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on product hardening conditions (can, ambient, surface temperature, quality of used equipment and skills of person applying the product).

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Styro 753 Gun Foam Adhesive	750 ml	Can	12	624



CONSTRUCTION OF WALLS

Drywall

High Yield Adhesive

Drywall Foam Adhesive is excellent for adhering drywall sheets on studs or furring strips, boards on concrete or plywood, styrofoam, concrete, metals, masonry, steel, metals, fiberglass and more. Its high yield formula reduces canister changes and overall installation time. It adheres to most construction materials including: drywall, vinyl-faced wallboard, masonry, lumber, cork, steel studs, and other wood materials.

APPLICATIONS:

- Installing drywall panels
- Sealing small gaps
- Adheres to most construction materials including: drvwall, vinyl-faced wallboard, masonry, lumber, cork, steel studs, and other wood materials

BENEFITS:

- Replaces up to 12 traditional 600 ml cartridges
- Meets ASTM D6464 and ASTM C557
- Saves money, time, and effort
- . Superior adhesion- can be applied to dry, wet, or frozen surfaces
- Eliminates nail pops
- Increases thermal and acoustic insulation

TECHNICAL PARAMETERS*:

- Parameter (+23°C/ 50% RH) 1) Value
- Yield (linear yield of 1,2 cm width bead) can cu [ft]: Min 500"at 1/2" bead 800" (average result)
- Tack-free time (TM 1014-2013): ≤ 20 min
- . Working time: 30 min
- Initial grab: 15 min
- Full cure time (RB024) 48 h .
- Secondary increase in volume
- (postexpansion) (TM1010-2012): 25%
- Shear strength-dry lumber [PSI] ≥ 290
- Flammability class (DIN 4102) B3
- Application temperature: +5°C to +35°C . Open time: 10 min
- . Shelf life: 18 months

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (can, ambient, surface temperature, quality of used equipment and skills of person applying the foam).

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Drywall Gun High Yield Adhesive	850 ml	Can	12	720

Subfloor

High Yield Adhesive

Subfloor Foam Adhesive's innovative high-yield formula replaces up to 12 traditional 600 ml cartridges while providing superior insulation and acoustic dampening properties.



APPLICATIONS:

- Bonding joists, subflooring, trusses, and decks
- Provides a strong bond to lumber, plywood,
- concrete, metals, masonry and other substrates

BENEFITS:

- One 850 ml can replaces up to 12 traditional 600 ml adhesive cartridges
- Prevents floor squeaks
- Faster than conventional adhesive application
- Bonds to wet and frozen lumber
- Superior gap and imperfection filler
- Superior floor levelling performance

TECHNICAL PARAMETERS*:

- Tack-free time (TM 1014-2013): < 10 min
- Full cure time (RB024): 48 h
- Secondary increase in volume (postexpansion) (TM1010-2012): 0% Compression strength: 14 PSI
- Tensile strength: 61 PSI
- Shear strength-dry lumber: 400 PSI .
- Application temperature: +5°C to +35°C
- Open time: 10 min
- Shelf life: 18 months

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam).

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Subfloor Gun High Yield Adhesive	850 ml	Gun	12	720



PU Adhesive for Boards

One-component polyurethane based adhesive for professional users. It is used for joining plasterboards to walls and ceilings. The adhesive foams up slightly during the drying process, it is tough once hardened. Product tested by eco-Institut Köln.

APPLICATIONS:

- Gypsum fibre boards for dry lining and interior
- work of walls, ceilings and floorings (floating floors)
 For wall areas subjected to high levels of humidity like wet rooms and semi-exposed external wall
- areas (incl. hotel bathrooms, hospitals)

 For jointing square edged gypsum fibre boards

BENEFITS:

- High joint strength no joint cracks when proper processing
- Low pollutant and low emission of harmful substances – free of plasticisers and silicone
- Easy to proces simple application for the wall area and overhead

TECHNICAL PARAMETERS:

- Application temperature: +15°C to +25°C
- Density (ISO 2811-1): 1,49 ± 0,05 g/ml
 Skin formation time: 60–140 min
- (depends on ambient temperature)
- Full curing time: 24 h

Product name	Content	Packaging	Pieces per box	Pieces per pallet
PU Adhesive for Boards	310 ml	Cartridge	12	1 440
	600 ml	Bottle	12	1 020

PU Adhesive for Flooring Boards

One-component polyurethane-based adhesive for professional users. It is used for joining flooring elements. The adhesive foams up slightly during the drying process, it is tough once hardened. Product tested by eco-Institut Köln



APPLICATIONS:

- For joining gypsum fiber boards and screed plates in flooring areas subject to high levels of humidity/ moisture, dry flooring
- For jointing square edged gypsum fiber boards

BENEFITS:

- High joint strength no joint cracks when proper processing
- Ideal for underfloor heating
- Perfect for wet rooms (also in public buildings)
- Low pollutant and low emission of harmful
- substances free of plasticisers and silicone
 Easy to proces simple application for the wall area and overhead

- Application temperature: +15°C to +25°C
- Optimal bonding temperature: +23°C
- Density (ISO 2811-1): 1,14 ± 0,02 g/ml
 Skin formation time: 80–130 min
- (depends on ambient temperature)
 Open time: +23°C and 50% RH: 40–75
- Full curing time: 24 h

Product name	Content	Packaging	Pieces per box	Pieces per pallet
PU Adhesive for Flooring Boards	1 kg	Bottle	6	432



Green Adhesive for Boards

Waterbased adhesive for professional users. Dedicated for bonding of gypsum fiber boards. Cures by water evaporation. Product tested by eco-Institut Köln

APPLICATIONS:

- For joining gypsum fiber boards and screed plates in flooring areas – dry floors
- For jointing square edged gypsum fiber boards

BENEFITS:

- High joint strength no joint cracks when proper processing
- Low pollutant and low emission of harmful
- substances free of plasticisers and silicone
- Easy to proces simple application for the wall area and overhead

TECHNICAL PARAMETERS:

- Application temperature: > +5°C
- Density (ISO 2811-1): 1,1 ± 0,05 g/ml
- Working time: ~ 20 min (depends on ambient temperature and subfloor properties)
- Full curing time: < 24 h

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Green Adhesive for Boards	1 kg	Bottle	б	432

Drywall

Acrylic

A highly flexible sealant based on acrylic resin, recommended for pointing joints in drywall constructions. Designed for both interior and exterior use. It is characterized by an excellent adhesion to common substrates such as drywall, concrete, brick, plaster, wood or stone.



APPLICATIONS:

- Connections in the technology of drywall
- Filling scratches, cracks and joints in walls
- and ceilings before painting
- Sealing the door frames, window frames, window sills, balustrades
- The sealing between the wall and baseboards, ceiling and sockets

BENEFITS:

- Hygienic Certificate issued by the National Institute of Hygiene
- Can be perfectly painted
- Very flexible
- Fast curing
- Perfect adhesion to porous surfaces
- Odourless and chemically neutral

- Module at 100% elongation (ISO 37): 0,55 ± 0,05 MPa
- Movement accommodation (ISO 9047): 12,5–15,0%
- Elongation at break (ISO 8339): 135 ± 12,5%
- Elongation at break (ISO 37): 450 ± 50%
- Elastic recovery (ISO 7389): 35 ± 5%
- Shore A hardness (ISO 868): 42 ± 2%
- Temperature resistance: -20°C to +80°C
- Colour: white
- Curing rate: 1,0 mm/ 24 h (+23°C, 50% RH)

Product name	Content	Packaging	Pieces per box	Pieces per pallet	Colours
Drywall Acrylic	310 ml	Cartridge	12	1 4 4 0	White



FACADE SOLUTIONS

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FACADE SOLUTIONS

Thermal insulation of buildings is undoubtedly one of the most vital stages of the construction. If properly performed, it influences the cost effectiveness of maintenance, improves the comfort of living and eases the environmental impact.

Why insulate buildings?

The uninsulated outer walls increase the maintenance costs of a given building. In winter time, due to the increased heating costs and in summer due to the cooling costs. Globally, regardless of the time of year, the lack of insulation negatively affects energy efficiency which leads to increased CO₂ emissions to the atmosphere. How to avoid it? The solution is simple: thermal insulation.

The thermal insulation is a protective layer whose function is to prevent cooling or overheating in the summer. It allows users to enjoy the thermal comfort and also stops the growth of pathogenic molds and fungi. In order to obtain a full guarantee and the assurance of the choice of compatible products, it is important that complete, technically approved insulating systems by one manufacturer are be applied.

The products in Tytan Insulation Systems are designed to meet the most stringent requirements of thermal insulation capacity, durability and weatherproofing.

Tytan Insulation Systems meet the European and domestic quality demands. They hold EOTA (European Technical Assessment) certificate and local attestations.

Selena offers Tytan FGS – the Fastest Insulation System available in the market. It is based on IS13 – Fast Adhesive for ETICS and the system traditionally is applied on polystyrene panels or mineral wool. As a finish coat, we offer a large variety of decorative plasters, sprayed – on or applied manually.

Tytan Insulation Systems offer unlimited options of facade rendering. These products make your dreams become reality by rendering lively, vibrant colours to facades, allowing you to achieve unique, esthetic effects and ensuring their durability over long years. They are easy-to-use, convenient and give contractors and investors an opportunity to create attractive and durable facades.

Tytan FGS – the Fastest Insulation System. We speed up insulation!

Tytan FGS – the Fastest Insulation System is the newest solution for External Thermal Insulation of buildings. The system is based on 2 innovative solutions: Fast Adhesive for ETICS and the Spray-on Technology. Designed in consultation with professionals, it eliminates inconvenient and time-consuming procedures and reduces the total rendering time by up to 50%.

The Fastest Insulation System FGS offers a range of products including the following: Fast Adhesive for ETICS instant mounting of panels placing of panels up to 30 mm Graphite from the wall Polystyrene ideal for graphite polystyrene dowelling after 2 hours TYTAN FIBRE-REINFORCED MORTAR upici a stitu LEFELD SY · Suderigstroppionasi dai etter assessmenteri peter III Children telasorie and Fibre-Reinforced Mortar fiber TYTAN TYTAN COLLOIDAL SILICATE UNIVERSAL PLASTER PRIMER * 🙆 🙆 🕉 **Fiberglass Mesh** high weight: 165g/m² Spray-applied Colloidal Silicate Plaster Universal Primer for Plasters latex waterproofing coating highest yield per pack reduces substrate absorption

- breathable and flexible
- contains algaecides and fungicides

improves adhesion

facilitates the application of plasters

- reinforced with polypropylene
- mechanical damage resistance
- high flexibility and adhesion

- very durable and flexible .
- contains hydrophobic additive



With an unique high density formulation the process of bonding insulation boards can be done in a more efficient and easy way. Saving time, money and improving overall building performance.

Application aspects	Cement adhesives	Fast Adhesive for ETICS
Product preparation	13 min	1 min
Carrying heavy objects	1 bag = 25 kg	1 can = 1 kg
More place for storage	1 pallet	2 boxes
Additional tools needed	Buckets, mixer, drill, trowels	Foam gun
Electricity and water	Yes	No
Cleaning	20 min	1 min
Full cure	Min 4 days	24 h
Anchoring	2 days	2 h

Insulate 2 times more and anticipate consecutive steps in ETICS

- Insulate 10 m² in 30 minutes
- Start anchoring 2 hours after board installation
- Full cure after 24 hours

Unique high density formulation makes application precise and easy

- Instant initial grab of boards
- Possibility to correct up 30 mm of wall deviation
- High bead wind resistance

Formulation improves overall building parameters

- 4 kg less per m² when compared to traditional solutions
- Adhesive with extremely low thermal conductivity: (λ) < 0,035 W/mK
- Flexible won't detach in case of board expansion, can be used with Graphite boards
- Tested in accordance to EOTA's directives:
- ETAG 004 (guideline for European Technical Approval of ETICS)
- Technical report no. 46 (test methods for foam adhesives for ETICS)



Fast Adhesive for ETICS



IS13 Fast Adhesive for ETICS is recommended for mounting insulation boards in Tytan Insulation System. The innovative product formula has an outstanding density which ensures fast grab, precise installation and strong adhesion.

APPLICATIONS:

- Mounting insulation boards in ETICS
- All types of insulation materials: EPS, XPS, PUR/PIR, mineral wool and foamed glass
- All types of substrates: concrete, wood, OSB, bitumen membranes, autoclaved aerated concrete, ceramic brick, silicate brick, glass, metal and PVC
- **BENEFITS:**

Instant grab

- Correction of uneven surfaces up to 30 mm
- Easy board levelling and correcting .
- Anchoring in 2 h
- Strong adhesion to graphite EPS .

TECHNICAL PARAMETERS:

- Yield: up to 10 m²
- Application temperature: 0°C to +30°C
- Can temperature: +10°C to +30°C .
- Open time: ≤ 5 min .
- Correction time: ≤ 10 min
- Anchoring time: 2 h
- Coefficient of thermal conductivity:
- (λ) < 0.035 W/mK
- Fire rating: B3/F (DIN 4102)
- Shelf life: 12 months
- Tested according to ETAG 004 and EOTA TR 46: N020-032439; N020-032442

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Fast Adhesive for ETICS IS13	870 ml	Can	12	624

Fibre-Reinforced Mortar



Fibre-Reinforced Mortar is designed to bond EPS (expanded polystyrene) and mineral wool boards and form reinforcing layers in Tytan Insulation System on perimeter walls of buildings, as well as to patch and smooth down the substrate for thin-coat decorative plasters.

BENEFITS:

- Reinforced with fibres unique fibre combination High adhesion to mineral substrates, EPS .
- and mineral wool boards Resistant to extreme mechanical loads and thermal stresses
- Highly impact resistant .
- Flexible and durable .
- Vapour permeable
- Resistant to scratches and cracks
- Resistant to weather conditions .
- . External and internal walls
- Pot life of a water mix: up to 2 h .
- Frost resistant when set

- Mixing ratio (water per bag): approx. 5,25-7 l per 25 kg
- Consumption: 1,45 kg/mm/m²
- Reinforcing layer thickness: 3–4 mm
- Bulk density: ~1,5 kg/dm³
- .
- Temperature of application: +5°C to +25°C
- Maturing time: 5 min .
- Drying time: 1–3 days
- Complete setting time: 28 days
 - Adhesion acc. ETAG 004: to EPS-boards:
 - between layers after ageing: > 0,08 MPa - to concrete: > 0,25 MPa

Product name	Content	Packaging	Pieces per pallet	Colours
Fibre Reinforced Mortar IS22	25 kg	Bag	48	Grey



Universal Plaster Primer

Plaster Primer is intended for final preparation of the surface before the application of acrylic, colloidal silicate, silicone, hybrid, mineral and mosaic plasters for Tytan Insulation Systems based on the EPS or mineral wool boards. It prevents contamination from being transferred from undercoat to plaster and consequently it prevents stains. The fine aggregates make the primed surfaces rough and scratch resistant.



BENEFITS:

.

- Strengthens the substrate
- Reduces the absorption of the substrate
- Improves the adhesion
 - Makes easy the application of plasters Ready to use

TECHNICAL PARAMETERS:

- Temperature of application (of the substrate, air, materials): +5°C to +25°C
- Yield: ca. 0,25 l/m² depending on the evenness and absorption of the substrate
- Drying time: ca. 6 h
- Application of plaster: after 12 h from priming
- Colour: white or matched to the colour of plaster
- Coverage of 10 l container: ca. 40 m²

Product name	Content	Packaging	Pieces per pallet
Universal Plaster Primer IS41	51	Bucket	100
	10	Bucket	33

Colloidal Silicate Plaster

Colloidal Silicate Plaster with mineral fillers and aggregates. When fully cured, it creates a vapor-permeable, elastic and weather-resistant coat.

APPLICATIONS:

- For structural exterior and interior plasters
- Finishing layer in Tytan Insulation Systems
- Creates a protective and decorative coating

BENEFITS:

- Breathable high vapour permeable
- Low alkaline: pH = 8,0-9,0
- NANOtechnology
- User friendly easy-to-use (manual, spray applied)
- Myko secure resistant to biological corrosion (fungi and algae)
- Colour safe ready-to-use in thousands of colours
 Low consumption
- Low consumption
 Resistant to weather condition
- Resistant to weather conditionsExcellent covering-up properties
- Based on colloidal silicate dispersion

- Temperature of application (surface, air, materials): +5°C to +25°C
- Drying time: ca. 24–48 h depending on weather conditions
- Colour: available in full range of Tytan Colour Collection or provided pattern

Product name	Approximate yield	Stone texture (kg/m²)	Rustic texture (kg/m²)
	1,5 mm	2,2-2,4	2,4
IS52	2,0 mm	2,9-3,1	3,0
	2,5 mm	3,9-4,1	-
IS52N	Spray- applied	1,8-2,0	-

Product name	Content	Packaging	Pieces per pallet
Colloidal Silicate Plaster IS52	25 kg	Bucket	24
Colloidal Silicate Plaster IS52N (Spray-applied)	25 kg	Bucket	24





Fibreglass Mesh IS165



The mesh is used as a reinforcement element in the external insulation systems rendered in compliance with the European Technical Assessment (ETA) or with the ITBT Technical Approval.

TECHNICAL PARAMETERS:

- High basis weight: 165 g/m²
- Latex coating impregnation .
- Durable and elastic .
- Contains hydrophobic additive .



Product name	Packaging	Pieces per pallet
Fibreglass Mesh IS165	50 m ²	33

Fibreglass Mesh IS145



Highly flexible mesh used as reinforcement material in thermal insulation system of external walls of buildings.

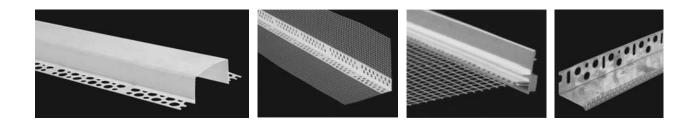
TECHNICAL PARAMETERS:

- Basis weight: 145 g/m²
- Durable and elastic

Product name	Packaging	Pieces per pallet
Fibreglass Mesh IS145	50 m ²	33

Facade Profiles

Tytan Professional offers a wide range of profiles for connections, trim and joints on facades resolving all types of connections between different materials on ETICS system. Tytan profiles can be used for the following areas of application: corner and base beads, trim elements for changes in insulation depth, edge profiles and expansion joints, crimped profiles, profiles for dry-mounted construction, partition corners and special profiles.





Adhesive Mortar for EPS



Adhesive Mortar for EPS is a cement based adhesive part of certified system for ETICS. Designed to bond EPS (expanded polystyrene) boards in Tytan Insulation Systems. It is suitable for both new buildings and also the buildings to be thermo-renovated with ETICS.

BENEFITS:

- Flexible
- Good adhesion to EPS boards
- Vapour permeable
- Resistant to weather conditions
- External and internal walls

TECHNICAL PARAMETERS:

- Mixing ratio (water per bag): approx.
 5,0-5,25 l per 25 kg
 - Consumption: 1,45 kg/mm/m²
- Temperature of application: +5°C to +25°C
- Bulk density: ~1,5 kg/dm³
- Maturing time: 5 min
- Pot life of a water mix: up to 1,5 h
- Drying time: 1–3 days
- Complete setting time: 28 days
- Adhesion acc. ETAG 004: to EPS-boards:
 between layers after ageing: > 0,08 MPa
 - to concrete: > 0,25 MPa

Product name	Content	Packaging	Pieces per pallet	Colours
Adhesive Mortar for EPS IS11	25 kg	Bag	48	Grey

Adhesive Mortar for Mineral Wool

<image><image>

Adhesive Mortar for Mineral Wool is designed to bond mineral wool boards in Tytan Insulation Systems. It is suitable for both new buildings and also the buildings to be thermo-renovated with ETICS.

BENEFITS:

- Flexible
- Good adhesion to mineral wool boards
- Highly vapour permeable
- Resistant to weather conditions
- External and internal walls

- Mixing ratio (water per bag):
- approx. 5,5 l per 25 kg
- Consumption: 1,45 kg/mm/m²
- Bulk density: ~1,5 kg/dm³
- Temperature of application: +5°C to +25°C
- Maturing time: 5 min
- Pot life of a water mix: up to 1,5 h
- Drying time: 1–3 days
- Complete setting time: 28 days
- Adhesion acc. ETAG 004: to EPS-boards: between layers after ageing: > 0,08 MPa
- to concrete: > 0,25 MPa

Product name	Content	Packaging	Pieces per pallet	Colours
Adhesive Mortar for MW IS12	25 kg	Bag	48	Grey



Adhesive & Reinforcement Mortar

<image>

Adhesive & Reinforcement Mortar is designed to bond EPS (expanded polystyrene) boards and to form reinforcing layers in Tytan Insulation Systems. It is suitable for both new buildings and also the buildings to be thermo-renovated with ETICS.

BENEFITS:

- Flexible
- High adhesion to mineral substrates and EPS boards
- Vapour permeable
- Resistant to weather conditions
- External and internal walls
- Frost resistant after set
- Pot life of a water mix: up to 2 h

TECHNICAL PARAMETERS:

- Mixing ratio (water per bag): approx. 5,25 l per 25 kg
- Consumption: 1,45 kg/mm/m²
- Reinforcing layer thickness: 3–4 mm
- Bulk density: ~1,5 kg/dm³
- Temperature of application: +5°C to +25°C
- Maturing time: 5 min
- Drying time: 1–3 days
- Complete setting time: 28 days
- Adhesion acc. ETAG 004: to EPS boards:
 between layers after ageing: > 0,08 MPa
 - to concrete: > 0,25 MPa

Product name	Content	Packaging	Pieces per pallet	Colours
Adhesive & Reinforcement Mortar IS21	25 kg	Bag	48	Grey

Adhesive & Reinforced Render



Adhesive and Reinforced Render is designed to bond EPS and mineral wool boards and to form reinforcing layers in Tytan Insulation System. It is suitable for both new buildings and also the buildings to be thermo-renovated with ETICS. If used with reinforcing mesh, the mortar provides a perfect solution for renovation of old plasterwork and for fixing damaged or cracked existing insulation systems.

BENEFITS:

- Based on white cement
- Reinforced with fibres unique fibre combination
- High adhesion to mineral substrates, EPS
- and mineral wool boards

 Resistant to extreme mechanical loads
- Resistant to extreme med and thermal stresses
- Highly impact resistant
- Flexible and durable
- Vapour permeable
- Resistant to scratches and cracks
- Resistant to weather conditions
- External and internal walls
- Frost resistant

.

• Pot life of a water mix: up to 2 h

- Mixing ratio (water per bag):
- approx. 5,5 | per 25 kg
- Consumption: 1,45 kg/mm/m²
 Reinforcing layer thickness: 3–4 mm
- Reinforcing layer thickness: 3–4 mm
 Bulk density 15 kg/dm³
- Bulk density: ~1,5 kg/dm³
 Temperature of application: +5°C to +25°C
- Maturing time: 5 min
- Maturing time: 5 min
 Drying time: 1–3 days
- Complete setting time: 28 days
- Adhesion acc. ETAG 004: to EPS-boards:
- between layers after ageing: > 0,08 MPa
 - to concrete: > 0,25 MPa

Product name	Content	Packaging	Pieces per pallet	Colours
Adhesive & Reinforced Render IS23	25 kg	Bag	48	White



Acrylic Plaster

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ACRYLIC

PLASTER

Acrylic Plaster is intended for primary and renovating insulating of all seasoned mineral substrates for Tytan Insulation Systems based on the EPS boards. The plaster is used in manual and spray application with a spray gun which makes work much easier and faster.

BENEFITS:

- Flexible and durable
- User friendly easy-to-use (manual, spray applied) Myko secure resistant to biological corrosion
- (fungi and algae)
 - Colour safe ready-to-use in thousands
 - of colours
 - Low consumption
- Resistant to weather conditions
- Based on acrylic dispersion

TECHNICAL PARAMETERS:

- Temperature of application (surface,
- air, materials): +5°C to +25°C Drying time: ca. 24–48 h depending .
- on weather conditions
- Colour: available in full range of Tytan Colour Collection or provided pattern

Product name	Approximate yield	Stone texture (kg/m²)	Rustic texture (kg/m²)
IS51	1,5 mm	2,2-2,4	2,4
IS51	2,0 mm	2,9-3,1	3,0
IS51N	Spray- applied	1,8-2,0	-

Product name	Content	Packaging	Pieces per pallet
Acrylic Plaster IS51	25 kg	Bucket	24
Acrylic Plaster IS51N (Spray-applied)	25 kg	Bucket	24

Silicone Plaster

Plaster based on silicone dispersion with high quality fillers and pigments which cause pearl like effect of water after wetting the coat. The structure of the coating ensures fast moisture evaporation from the substrate and at the same time creates efficient protection against the substrate moisture and humidity.

APPLICATIONS:

· Silicone Plaster is intended for coating exterior and internal substrates. It can be used as a finishing layer in Tytan Insulation Systems. Creates a protective and decorative coating

BENEFITS:

- Self-cleaning resistant to dirt
- Hydrophobic low absorbability
- impact resistant highly durable
- User friendly easy-to-use (manual, spray applied)
- Myko secure resistant to biological corrosion .
- (fungi and algae) Colour safe - ready-to-use in thousands of colours
- Low consumption .
- Resistant to UV and weather conditions . (rain, sunshine, frost, wind)
- Excellent covering-up properties
- Based on silicone dispersion

- Temperature of application (surface, air, materials): +5°C to +25°C
- Drying time: ca. 24–48 h depending on weather conditions
- Colour: available in full range of Tytan Colour Collection or provided pattern

Product name	Approximate yield	Stone texture (kg/m²)	Rustic texture (kg/m²)
	1,5 mm	2,2-2,4	2,4
IS53	2,0 mm	2,9-3,1	3,0
	2,5 mm	3,9-4,1	-
IS53N	Spray-applied	1,8-2,0	-

Product name	Content	Packaging	Pieces per pallet
Silicone Plaster IS53	25 kg	Bucket	24
Silicone Plaster IS53N (Spray-applied)	25 kg	Bucket	24





Hybrid Plaster

Hybrid plaster based on silicate-silicone dispersion with high quality fillers and pigments which cause pearl like effect of water after wetting. When fully cured it creates a vaporpermeable, elastic and weather-resistant coating. The structure of the coating ensures fast moisture evaporation from the substrate and at the same time creates efficient protection against the substrate moisture and humidity.

APPLICATIONS:

- TYTAN HYBRID PLASTER
- Hybrid Plaster is intended for coating exterior and internal substrates. It can be used as a finishing layer in Tytan Insulation Systems. Creates a protective and decorative coating

BENEFITS:

- Breathable vapour permeable .
- Self-cleaning resistant to dirt Hydrophobic low absorbability
- .
- User friendly easy-to-use (manual, spray applied)
- Myko secure resistant to biological corrosion .
- Colour safe ready-to-use in thousands of colours . .
- Low consumption
- . Resistant to weather conditions
- Homogenous structure excellent covering-up . properties
- Based on silicate-silicone dispersion

TECHNICAL PARAMETERS:

- Temperature of application (surface, air, materials): +5°C to +25°C
- Drying time: ca. 24–48 h depending . on weather conditions
- Colour: available in full range of Tytan Colour Collection or provided pattern

Product name	Approximate yield	Stone texture (kg/m²)	Rustic texture (kg/m²)
1555	1,5 mm	2,2-2,4	2,4
1222	2,0 mm	2,9-3,1	3,0
IS55N	Spray-applied	1,8-2,0	-

Product name	Content	Packaging	Pieces per pallet
Hybrid Plaster IS55	25 kg	Bucket	24
Hybrid Plaster IS55N (Spray-applied)	25 kg	Bucket	24

Mineral Plaster



Mineral Plaster is intended for coating exterior and internal substrates. It can be used as a finishing layer in Tytan Insulation Systems. Creates a protective and decorative coating.

BENEFITS:

- Natural
- Flexible and durable
- Breathable highly vapour permeable .
- User friendly easy-to-use . . High adhesion to mineral substrates
- and thermal insulation
- Increasing endurance and adhesion with time Resistant to weather conditions (rain, sunshine, .
- frost, wind) External and internal walls

- Mixing ratio (water per bag): approx. 5,5 l per 25 kg
- Temperature of application: +5°C to +25°C Maturing time: 5 min .
- Pot life of a water mix: up to 1,5 h
- Drving time: 1–3 days
- Complete setting time: 28 days

Approximate yield	Stone texture (kg/m²)	Rustic texture (kg/m²)
1,5 mm	2,5	2,5
2,0 mm	3,0	3,0
3,0 mm	4,0	4,0

Product name	Content	Packaging	Pieces per pallet
Mineral Plaster IS54	25 kg	Bag	24



Mosaic Plaster

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MOSAIC PLASTER

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Mosaic Plaster is a mixture of colored aggregates and transparent binder. When fully cured, it creates a flexible, weather-resistant coating. Available in two colours and granules in accordance with the colour chart. Creates a protective and decorative coating.

APPLICATIONS:

- Recommended to be applied to the exposed to abrasion walls inside the buildings, e.g. at the entrance, corridors, staircases as well as outside the buildings: on the pedestals,
- railings, door and window frames. Can be used as final layer in Tytan Insulation Systems

BENEFITS:

- Impact resistant
- Resistant to abrasion
- Low water absorption (pearl effect)
- Flexible and durable
- Easy to clean resistant to washing
- User friendly easy-to-use (manual, spray applied)
 Myko secure resistant to biological corrosion
- (fungi and algae)
- Colour safe ready-to-use in thousands of colours
- Resistant to weather conditions

TECHNICAL PARAMETERS:

- Temperature of application (surface, air, materials): +5°C to +25°C
- Drying time: ca. 24–72 h depending on weather conditions
- Colour: available in full range of Tytan Colour Collection or provided pattern
- EN-12004 C1T

Product name	Approximate yield	min (kg/m²)	ca. (kg/m²)	max (kg/m²)
IS56	1,0 mm	1,7-2,0	2,25-2,5	2,8-3,0
1220	1,5 mm	3,0	4,0	5,0
IS56N	Spray- applied	2,0	2,5	3,0

Product name	Content	Packaging	Pieces per pallet
Mosaic Plaster IS56	15 kg	Bucket	33
Mosaic Plaster IS56N (Spray-applied)	15 kg	Bucket	33

Mosaic Varnish

Mosaic Varnish creates a flexible and transparent coating resistant to adverse weather conditions and water. The product reinforces and seals old mosaic plaster coatings. The painted surface achieves an aesthetic look and its life is extended.



APPLICATIONS:

- For the maintenance of mosaic plasters based on colored quartz and marble
- Used on facades and other elements outside and inside.
- For renovation of mosaic plasters

BENEFITS:

- Reinforces and seals the facade to improve the appearance of the plasterboard
- For adverse atmospheric conditions
- Inside and outside
- Acrylic dispersion base

TECHNICAL PARAMETERS:

- Application temperature (substrate, air, materials): +5°C to +25°C
- Drying time: approx. 24 h

 depending on weather conditions
- 1-layer paint consumption: 0,15–0,2 l / m²
- by testing the object after drying:
- transparent
 Yield from a 10 l container with 1 layer: 50–66 m²

Depending on the substrate equality and absorption

Product name	Content	Packaging	Pieces per pallet
Mosaic Varnish	10	Bucket	33



Facade Acrylic Paint

Facade Acrylic Paint is an exterior paint based on acrylic dispersion with the addition of high quality fillers and pigments. It is resistant to weather conditions like: rain, sunshine, frost, and wind. Topcoat is matt, smooth, without cracks. Can be applied manually or by spray.

APPLICATIONS:

- The exterior Acrylic Paint is intended for primary and renovating painting of all seasoned mineral substrates: cement plasters, lime-and-cement plasters, mineral and acrylic plasters, concrete, as well as for Tytan Insulation Systems based on the EPS boards Painting of mineral substrates
- Restauration of silicone plasters .
- Finishin layer in Tytan Insulation System

BENEFITS:

- Flexible and durable
- Resistant to weather conditions .
- Myko secure resistant to biological corrosion . (fungi and algae)
- Colour safe
- Wide range of colours .
- Excellent covering-up properties .
- Based on acrylic dispersion

TECHNICAL PARAMETERS:

- Application temperature (ground,
- air, materials): +5°C to +25°C Drying time: ca. 3–6 h depending
- on weather conditions Coverage rate in one layer: ca. 7–8 m^{2*}
- Coverage rate in two layers: from 4-5 m²
- Colour: available in full range of Tytan
- Colour Collection or provided pattern Parameters for spraying with Airless
 - type equipment:
 - pressure: 200 bar
 - spraying angle: 50°
 - nozzle size: 0,017-0,021 inch
- filter: 60 mesh
- Accurate consumption should be determined after tests on actual object Assumed consumption: depending on the smoothness and absorption of the substrate, on average approx. 0,2 J/m² with two coats

Product name	Product	Packaging	Pieces per pallet
Frende Asudia Deint (571	Manual	10	33
Facade Acrylic Paint IS71	Spray	10 l	33

Facade Colloidal Silicate Paint

The Facade Colloidal Silicate Paint is based on colloidal silicate dispersion with high quality fillers and pigments. Special additives that cause so-called photocatalysis effect enable the process whereby the coat cleans itself from the adhering grease.

APPLICATIONS:

- Painting of mineral substrates
- Restauration of silicone plasters
- . Finishin layer in Tytan Insulation System

BENEFITS:

- Breathable high vapour permeable
- Self-cleaning with photocatalysis effect
- Low alkaline: pH = 8,0-9,0.
- Resistant to weather conditions
- Myko secure resistant to biological corrosion (fungi and algae)
- Colour safe
- Wide range of colours .
- Excellent covering-up properties
- Based on colloidal silicate dispersion

TECHNICAL PARAMETERS:

- Application temperature (ground,
- air, materials): +5°C to +25°C Drying time: ca. 3–6 h depending
- on weather conditions Coverage rate in one layer: ca. 7–8 m^{2*}
- Coverage rate in two layers: .
- from 4-5 m²*
- Colour: available in full range of Tytan
- Colour Collection or provided pattern
- Parameters for spraying with Airless type equipment:
 - pressure: 200 bar
- spraying angle: 50°
 - nozzle size: 0,017-0,021 inch
- filter: 60 mesh

Accurate consumption should be determined after tests on actual object Assumed consumption: depending on the smoothness and absorption of the substrate, on average approx. 0,2 l/m² with two coats

Product name	Product	Packaging	Pieces per pallet
Frende Calleidal Ciliante Daint 1972	Manual	10 l	33
Facade Colloidal Silicate Paint IS72	Spray	10 l	33



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FACADE COLLOIDAL

SILICATE PAINT



Facade Silicone Paint

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FACADE

SILICONE PAINT

The Facade Silicone Paint is based on silicone dispersion with high quality fillers and pigments which cause pearl like effect of water after wetting. The structure of the coating ensures fast moisture evaporation from the substrate and at the same time creates efficient protection for the substrate against the moisture and humidity.

APPLICATIONS:

- Painting of mineral substrates
- . Restauration of silicone plasters
- Finishin layer in Tytan Insulation System .

BENEFITS:

- Self-cleaning resistant to dirt
- Photocatalysis effect
- Hydrophobic low absorbability
- Highly durable resistant to exploitation . damages and cleaning
- Vapour permeable
- Resistant to UV and weather conditions
- Myko secure resistant to biological corrosion (fungi and algae)
- Colour safe
- Wide range of colours
- Excellent covering-up properties .
- Based on silicone dispersion

TECHNICAL PARAMETERS:

- Application temperature (ground,
- air, materials): +5°C to +25°C
- Drying time: ca. 3–6 h depending on weather conditions
- Coverage rate in one layer: ca. 7–8 m^{2*}
- Coverage rate in two layers: from 4–5 m^{2*}
- Colour: available in full range of Tytan Colour
- Collection or provided pattern Parameters for spraying with Airless type equipment:
 - pressure: 200 bar
- spraying angle: 50°
- nozzle size: 0,017-0,021 inch
- filter: 60 mesh
- Accurate consumption should be determined after tests on actual object Assumed consumption: depending on the smoothness and absorption of the substrate, on average approx. 0,2 l/m² with two coats

Product name	Product	Packaging	Pieces per pallet
Frende Cilierne Drint (C72	Manual	10	33
Facade Silicone Paint IS73	Spray	10	33

Facade Silicate Paint

The Facade Silicate Paint is intended for covering mineral substrates: cement plasters, lime-and-cement plasters, mineral and silicate plasters, concrete, as well as finishing layer for Tytan Insulation Systems based on the EPS or mineral wool boards. The paint is permanently bound with the substrate as a result of chemical reactions.



BENEFITS:

- Breathable highest vapour permeable .
- Durable Resistant to weather conditions
- . Myko secure - natural protection
- for biological corrosion (fungi and algae) Colour safe
- Excellent covering-up properties
- Based on silicate dispersion

TECHNICAL PARAMETERS:

- Application temperature (ground, .
- air, materials): +5°C to +25°C Drying time: ca. 3–6 h depending
- on weather conditions
- Coverage rate in one layer: ca. 7–8 m^{2*} Coverage rate in two layers: from 4–5 m^{2*}
- Colour: available in full range of Tytan
- Colour Collection or provided pattern Parameters for spraying with Airless type
 - equipment: pressure: 200 bar
 - spraying angle: 50°
 - nozzle size: 0,017-0,021 inch
 - filter: 60 mesh

Accurate consumption should be determined after tests on actual object Assumed consumption: depending on the smoothness and absorption of the substrate, on average approx. 0,2 l/m² with two coats

Product name	Product	Packaging	Pieces per pallet
Foredo Cilicoto Doint 1574	Manual	10	33
Facade Silicate Paint IS74	Spray	10	33



FACADE SOLUTIONS

Mica



Decorative additive for mosaic plaster.

ADVANTAGES:

Colour

Black

Mix

Natural

- Three colours to choose from
- Natural product



Glitter



Decorative additive for mosaic plaster.

ADVANTAGES:

- Three colours to choose ironin
 Possible addition of any quantity per package

Colour	Package
Silver	50 g
Gold	50 g
Copper	50 g

Package

100 g

100 g

100 g

Decorative Template





Decorative template than can be used to create brick and stone pattern on facades and walls. The product should be used together with Tytan plasters.

BENEFITS:

- Easy-to-use
- . Self-adhesive

Product	Packaging	Quantity per box
Brick Template	Box	50
Stone Template	Box	50

How to make a natural stone or brick imitation facade

When planning thermal insulation of a building, it is worthwhile to consider the implementation of Tytan Professional stone/ brick imitation plaster. Such rendering is elastic, breathable and self-cleaning and, as a result, extends the life of a facade. It also does not put an excessive load on the facade and prevents efflorescence and discoloration thanks to the properties of the plaster. Another advantage is its quick and easy application which can be performed by any experienced plastering team. Additional benefit is a considerably lower cost of the protective-decorative plaster as compared with traditional one.

Stages of application of stone/ brick imitation plaster:

- 1. Priming of the surface with the primer paint of the colour matching the colour of grout which will be visible in the brick/ stone imitation.
- 2. Gluing Tytan Professional decorative template.
- 3. Plastering.

To apply the brick/ stone imitation plaster, a spray unit can be used. It ensures efficient and even application. When spraying the plaster, keep the nozzle of spray gun about 40 cm away from the wall in perpendicular position. Using this method, the plaster can also be applied on many different shapes of surfaces such as pillars or profiled, decorative elements of the facade. The natural stone and brick imitation plaster can also be applied manually. After application, the surface structure can be changed by trowelling fresh plaster to achieve a coarse, rough appearance of hand-made bricks.

4. Removing the Tytan Professional decorative.









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MULTIGRUNT

FACADE SOLUTIONS

Multigrunt

Primer

Multigrunt is a concentrated primer based on two types of acrylic dispersion that strengthen the substrate, leveling the absorbency and increasing the adhesion of screeds, adhesives, plasters, and interior and exterior paints. It penetrates the substrate, strengthens the surfaces, binds the loose particles and limits the water absorption of the substrate.



 Cement substrate, gypsum, anhydrite, plasterboard, autoclaved aerated concrete blocks, cement plasters, cement-lime plasters, gypsum plasters

BENEFITS:

- Concentrated
- Increases adhesion
- Strengthens substrate
- For internal and external use
- For adhesives, plasters, paints and floor levelling

TECHNICAL PARAMETERS:

- Application temperature (substrate, air, materials): +5°C to +25°C
- Consumption without dilution: approx.
 0,2 l per 1 m²/l depending on the evenness and absorption of substrate
- Drying time: approx. 3 h
- Drying time before continuing work:
 6 h after priming

Product name	Content	Packaging	Pieces per pallet	Colours
Multigrunt Primer S01	51	Canister	108	Transparent

Winter Additive to Plaster & Paint

Winter additive to Tytan paints and plasters enables to carry on insulation works at low temperatures: 0°C to +10°C and at high air humidity (up to 80%).



BENEFITS:

- Speeds up the process of plaster and paint bonding
- Protects coating against low temperature (from 0°C)
- Does not alter the colour of the finish coat

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Product name	Content	Pieces per box
Winter Additive to Plaster & Paint	0,25	9



Cement Fix

FACADE SOLUTIONS

Polymeric Filler & Fixer

Cement Fix is high quality, ready to use, one-component reparative mass with structure and appearance of concrete. Product does not require mixing and is ready to use. That makes the application quick and easy. Cement Fix was prepared on the basis of aqueous polymer dispersion, so it does not contain any solvents, isocyanates and silicones. Cement Fix has excellet adhesion to concrete and also othe building and construction materials.

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APPLICATIONS:

- Filling scratches, cracks, holes, joints in masonry, concrete and cement screeds
- Fixing ceramic and stone tiles
- Filling joints between clinker bricks

BENEFITS:

- Structure and appearance of concrete
- Easy and quick application, ready-to-use
- Multipurpose applications
- After cured product can be sanded and painted
- Very low shrinkage
- High resistance to UV rays and changing weather conditions
- Can be applied indoor and outdoor
- Odorless and chemically neutral does not contain
- solvents, isocyanates and silicones
- Can be applied on wet surfaces

Product name	Content	Packaging	Pieces per box	Pieces per pallet	Colours
Cement Fix	300 ml	Cartridge	12	1 440	Grey

Facade Acrylic Acrylic Filler

A flexible sealant used for sealing, pointing joints and filling gaps in walls and facades covered with structural plaster. Designed for both interior and exterior use.



APPLICATIONS:

- Pointing joints between construction elements covered with structural plaster
- Filing gaps, cracks and joints in facades, walls and ceilings before painting
- Pointing joints between the wall and skirting
- boards, stairs, ceiling, and around electrical sockets
- Pointing joints in construction elements exposed to low tensions

BENEFITS:

- Texture of structural plaster
- Excellent adhesion
- Flexible
- Paintable
- Resistant to UV-radiation and changing weather conditions

TECHNICAL PARAMETERS:

TECHNICAL PARAMETERS:

Application temperature: +5°C to +40°C

Elongation at break (ISO 8339): 20-40%

Temperature resistance: -20°C to +80°C

Shore A hardness (ISO 868): 78–90

Surface temperature: +5°C to +40°C

Density (ISO 2811-1): 1,95-2,05 g/ml

Skin formation time: 2–6 min

Curing rate: 9-14 mm/24h

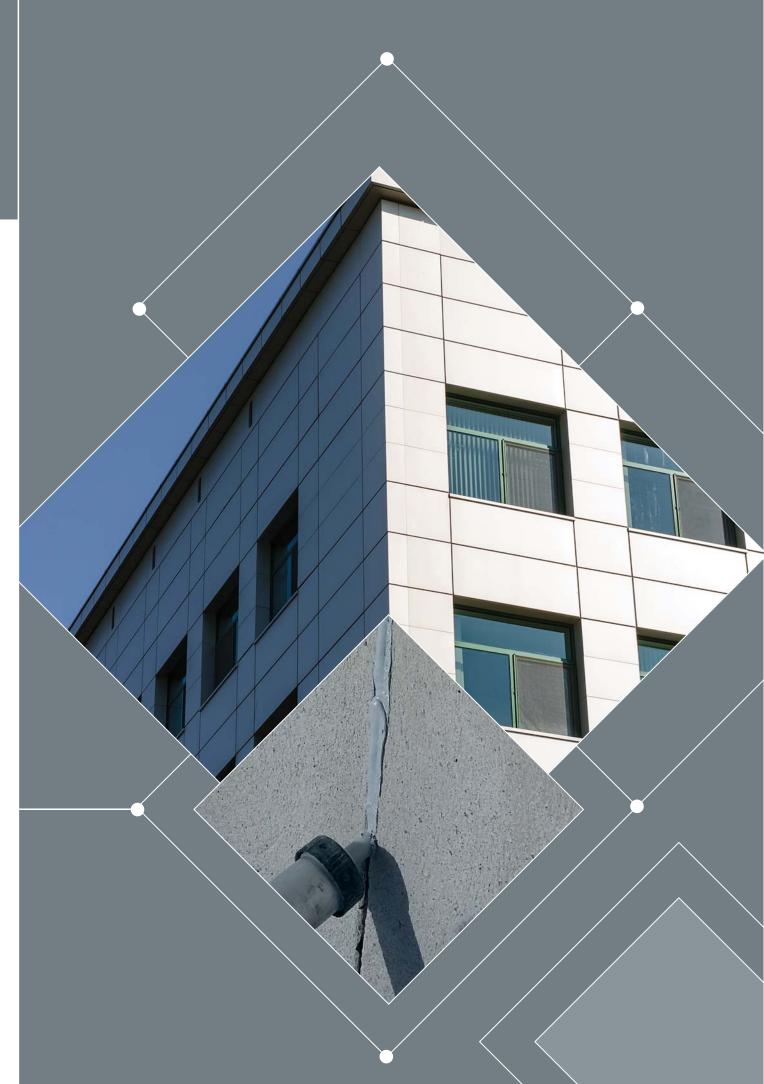
Shrinkage (ISO 10563): 10%

Tack Free: 2–6 min

Colour: grey

- Curing rate: 1,0 mm/ 24 h (+23°C, 50% RH)
- Working time: 10–15 min
- Module at 100% elongation:
 (ICO at) 0.15 + 0.02 MDa
- (ISO 37) 0,15 ± 0,03 MPa Movement accommodation: (ISO 9047) 7,5%
- Elongation at break: (ISO 8339) 32 ± 7,5%
- Elongation at break: (ISO 37) 350 ± 50%
- Elastic recovery: (ISO 7389) 20 ± 5%
- Shore A hardness: [ISO 868] 42 ± 2
- Temperature resistance: -20°C to +80°C
- Colour: white

Product name	Content	Packaging	Pieces per box	Pieces per pallet	Colours
Facade Acrylic	310 ml	Cartridge	12	1 4 4 0	White

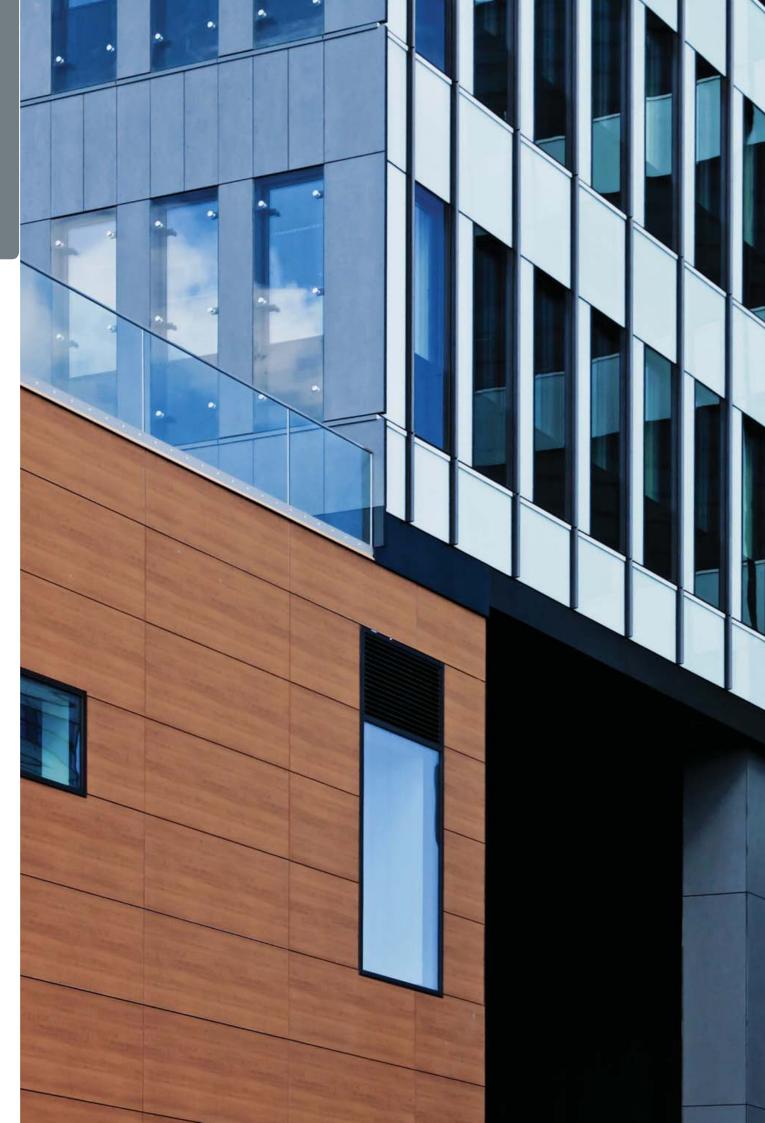


FACADE SEALING, BONDING & ANCHORING _____

- 65 Primer C29 Panel Bonding System
- 65 Panel Fixing Tape Panel Bonding System
- 65 MS FIX Panel Panel Bonding System
- 66 PU 25 Polyurethane Sealant
- 66 PU 40 Polyurethane Sealant
- 67 PU 50 Polyurethane Sealant
- 67 Low Modulus MS Sealant
- 68 MS 35 Hybrid Sealant
- 68 Building Silicone
- 69 C-15 PU Primer
- 69 Back Up Rod
- 71 EV II Chemical Anchor Vinylester Styrene Free
- 71 EV III Chemical Anchor Epoxy Styrene Free
- 72 EV W Chemical Anchor Winter Styrene Free
- 72 EV IV S Seismic Chemical Anchor
- 73 Polyurethane Mounting Adhesive
- 73 Heavy Duty Mounting Adhesive
- 74 Gallop Fix Fast Curing Mounting Adhesive
- 74 Vector Rapid Mounting Adhesive High-Tack
- 75 Chemical Anchor Gun
- 75 Manual Gun 600 ml
- 75 Vector Heavy Duty Caulking Gun

Construction of Walls 29

Facade Solution	5 4	1



A facade can be built in many different technologies. Most common technologies are ETICS and Ventilated Facade.

In addition to the aesthetic function of the facade envelope, it also protects the building from external environment influences such as temperature changes, sounds, wind and water.

Selena`s sealing, bonding and anchoring technologies have been developed to satisfy diverse needs present in the construction market.

Current solutions include sealants, adhesives and chemical anchors.

Sealants for Construction Joints



The range of sealants offered by Selena, is composed of different chemical bases and parameters dedicated for interior and exterior construction joints in commercial and residential buildings. They were designed for several different types of substrates such as: concrete, glass, steel and aluminium. The right joint preparation is crucial for protection of the construction against water penetration and cracks.

When choosing a sealant, there are several properties that need to be taken into consideration, for example: movement tolerance, substrate compatibility, resistance to: weather, temperature and abrasion and finally the paintability and impact on the substrate.

Below are the most common kinds of sealants and their general characteristics.

Acrylics

Acrylic sealants are highly paintable and have a texture that can easily blend with the substrate. They are usually recommended for porous materials in low movement-joints given their limited movement capacity and weather and abrasion resistance.

Silicones

Silicone sealants are used in a wide variety of building applications, for construction joints that are made of porous materials a Neutral Silicone is recommended, since an Acetic Silicone may stain the substrate. Silicone's main characteristics are high UV resistance, temperature resistance, highest movement capability and long service life. Silicone sealants can take considerably longer time to fully cure and are not paintable.

Polyurethane (PU) Sealants

Polyurethane sealants have high abrasion-resistance and they are paintable. They have excellent adhesion and good movement capability. Most common applications are vertical and horizontal dilatation gaps in pre cast constructions.

Hybrid Sealants

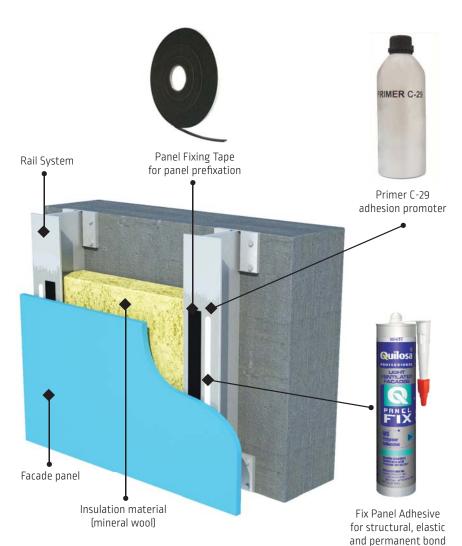
A newcomer based on modified polymer that combines the best in Silicones and Polyurethanes. High adhesion, can be painted and has good movement capability. Can be used in the same applications as Silicone and Polyurethane with the advantage of being solvent and isocyanate free.

	Building Silicone (Neutral)	PU Sealant	Acrylic	MS Hybrid Sealants
Paintability	Not paintable (can be colored in the production)	High	Highest	Highest
Movement Accommodation	Highest	High	Low	High
UV Resistance	Highest	Medium	Medium	High
Abrasion Resistance	High	Highest (High Shore PU)	Low	High
Chemical Resistance	High	High	Low	High
Substrate	All	All	Porous	All

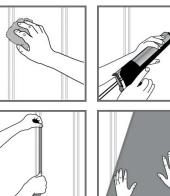
Panel Bonding System - a faster way of cladding

Wall cladding is a construction system used in ventilated facades in which the exterior of a building is covered with panels. The panels are installed in the facade by being fixed to a rail which is anchored to the structure of the building. The most common materials for Facade Cladding are panels made of ACM (Aluminium Composite Material) since it is a strong and lightweight material.

With Fix Panels system the panels can be fixed to the rail in an easy and firm way without the need for anchoring. The system was tested according to UNE EN 12865: 2002 and DRAFT ETAG 034 for resistance to pressure and wind suction and resistance to rainwater.







Fix Panels System guarantees:

- High initial grab
- Fast panel fixation
- Movement and vibrations absorption
- Resistance to humidity and changes in temperature
- Flexibility of design (curves) not feasible with mechanical fixing
- Concealed fixing providing aesthetic satisfaction
- Reduction of mechanical stresses
- Minimal maintenance
- No Isocyanates

Basic Steps:

- Cleaning panel and rails using the Primer C-29
- Installation of the Fix Panel double-sided tape on the track to maintain the panel in place while Fix Panel adhesive is curing
- Application of the Fix Panel Adhesive on the rails
- Panel gluing



Primer C-29

Panel Bonding System

PRIMER C-29

Cleaning and pre-treatment of lightweight composite panels prior to the application of the adhesive. Provides the best conditions for panel fixing.

Product name	Content	Pieces per box	Colours
Primer C-29	900 ml	4	Transparent

Panel Fixing Tape Panel Bonding System

PE double-sided tape for installation of lightweight facades in combination with the Fix Panel Adhesive. High resistance. Dedicated for delivering the initial tack of the panel until the adhesive reaches its maximum strength.

TECHNICAL PARAMETERS:

Thickness: 3 mm

• Width: 12 mm

	Product name	Content	Pieces per box	Colours
_	Panel Fixing Tape	20 m	30	Black

MS FIX Panel

Panel Bonding System

Elastic adhesive based on MS polymer for the bonding of panels to light facades. High initial grab allows quick panel attachment. Absorbs movement and vibrations and reduces the mechanical stresses of the facade. It facilitates the assembly of the facades.

APPLICATIONS:

- Bonding of lightweight facade panels of different materials, composite, ceramic, wood or fiber
- cement
- Indoor and outdoor use

BENEFITS:

- Resistant to humidity and temperature changes
- Excellent adhesion on most panels used in ventilated facades

Product name	Content	Packaging	Pieces per box	Colours
MS FIX Panel	280 ml	Cartridge	24	White
	600 ml	Foil	12	White



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PU 25

TYTAN

FACADE SEALING, BONDING & ANCHORING

Polyurethane Sealant

PU 25 is a professional, one-component, low modulus, flexible sealant with a wide range of applications in industry and construction.

APPLICATIONS:

- Sealing and filling dilatation joints in cement floors with low pedestrian traffic
- Filling expansion joints in walls, facades of buildings, prefabricated elements
- and other construction materials
 Sealing joints between facade panels and other materials such as windowsill, decorative elements
- Finishing and closing of roofing connections, filling gaps in roof during renovation
- BENEFITS:
- Creates a strong and flexible joint resistant
- to weathering and aging
- High mechanical strength
- Absorbs vibrations
- Cures without the formation of bubbles
- Paintable

TECHNICAL PARAMETERS:

- Colour: white, grey, black, brown
- Application temperature: +5°C to +40°C
- Shore A Hardness (ISO 868): 30
- Thermal resistance: -30°C to +80°C
- Modulus 100% (ISO 7389): 0,36 Mpa
- Tensile Strength: 1,7 Mpa
- Elongation at break: 500%
- Tack Free: 60–90 min
- Curing rate: 3 mm/ 24 h

Product name	Content	Packaging	Pieces per box	Pieces per pallet
PU 25 Polyurethane Sealant	310 ml	Cartridge	12	1 140
	600 ml	Foil	12	1 152

PU 40

Polyurethane Sealant

Professional one-component polyurethane sealant, highly modular, creating a strong and flexible joint. The product complies with the standard of LEED 2009 C4.1 for low volatile organic content (VOC).



APPLICATIONS:

- Filling expansion joints and structural joints in cement floors
- Sealing joints and expansion joints in residential and industrial buildings, especially in concrete structures
- Finishing and sealing of roof coverings
- Sealing and bonding in air-conditioning and refrigeration
- Covering welds and connections in construction of containers and in automotive industry

BENEFITS:

- Very good resistance to mildew and bacterial growth
- Very good resistance to brine and chloride water
- Creates a strong and flexible joint resistant to weathering and aging
- to weathering and aging
- High resistance to abrasion
- Cures without the formation of bubbles
- Paintable

TECHNICAL PARAMETERS:

- Colour: white, grey, black, brown
- Application temperature: +5°C to +40°C
- Shore A Hardness (ISO 868): 35–45
- Thermal resistance: -40°C to +90°C
- Modulus 100% (ISO 7389): 0,6–0,8 Mpa
- Tensile Strength: 1,8–2,20 Mpa
- Tensile Strength: 1,8–2,20 M
 Elongation at break: 400%
- Tack Free [min]: 60–120 min
- Curing rate: 3 mm/ 24 h



PU 50

FACADE SEALING, BONDING & ANCHORING

Polyurethane Sealant

Professional one-component polyurethane sealant, characterized by very good stress absorbing properties, excellent adhesion to concrete and other porous and non-porous building materials. PU 50 has also very high mechanical strength and resistance to abrasion.

APPLICATIONS:

- Filling expansion joints and structural joints - both horizontal and vertical
- Sealing and filling cracks and fissures
- Filling gaps in roof ceiling during renovation
- of flat roof coverings
- Sealing and bonding in air-conditioning and refrigeration
- Sealing and bonding in automotive and shipping industry

BENEFITS:

- Sealing and bonding properties .
- Creates a strong and elastic joint
- Very good adhesion to a wide range of building and construction materials such as concrete, metals, brick, stones etc.
- Paintable

TECHNICAL PARAMETERS:

- Colour: white, grey, black, brown
- Application temperature: +5°C to +40°C
- Shore A Hardness (ISO 868): 60
- Thermal resistance: -40°C to +90°C
- Modulus 100% (ISO 7389): 1.2 Mpa .
- Tensile Strength: 2,50 Mpa .
- Elongation at break: 400% .
- Tack Free [min]: 45 min
- Curing rate: 3 mm/ 24 h

Product name	Content	Packaging	Pieces per box	Pieces per pallet
DU 50 Debuurtheurs Coolant	310 ml	Cartridge	12	1 140
PU 50 Polyurethane Sealant	600 ml	Foil	12	1 152

Low Modulus MS Sealant

Low Modulus Sealant based on MS polymer. Product has low module and high elasticity after curing. For a wide range of applications in the construction industry.

APPLICATIONS:

- Sealing facades
- Filling gaps, joints, slots in concrete, wood, gypsum, masonry and other building materials
- Sealing skirting-boards, panels, plates made of synthetic materials, glaze, terracotta, elements made of synthetic materials, wood, metals, metal plates, for all types of surfaces in building such as brick, concrete, gypsum, plasters

BENEFITS:

- Low Modulus, class 25 LM
- High elasticity
- No PHTHALATES
- High resistance to UV radiation Can be painted (possibility of painting even .
- .
- uncured sealant)
- Neutral, non-corrosive to metals and applicable on alkaline surfaces
- Can be applied indoor and outdoor
- High chemical resistance

TECHNICAL PARAMETERS:

- Application temperature: 0°C to +40°C
- Density (ISO 2811-1): 1,45 g/ml .
- Skin formation time: 20–40 min .
- . Curing rate: 2-3 mm/ 24 h
- Shrinkage (ISO 10563): 1-4% .
- Elongation at break (ISO 8339): 400-700%
- Shore A hardness (ISO 868): 22-28
- Movement accommodation: 25% Temperature resistance after curing: -40°C to +90°C

Product name	Content	Packaging	Pieces per box	Pieces per pallet	Colours
Low Modulus MS Sealant	600 ml	Foil	12	1 152	Grey





MS 35

3

FACADE SEALING, BONDING & ANCHORING

Hybrid Sealant

MS 35 is a white or transparent hybrid sealant. This product is perfect for using in places where transparent joint is required. The product has adhesion to many different materials, providing aesthetic and permanently elastic connection and seal. It can be applied indoor and outdoor, even on wet surfaces.

APPLICATIONS:

- Sealing around window, door and windowsills
- . Filling vertical and horizontal joints
- Sealing of wet areas
- Sealing elements made of natural stones

BENEFITS:

- Crystal transparent
- Non-yellowing with time .
- Chemically neutral does not contain phthalates, isocyanates and solvents
- Resistant to moulds and fungus, does not contain fungicides
- Does not discolour natural stone, does not cause corrosion of metals
- Can be painted after curing
- Temperature resistance after curing:
- -40°C to +110°C

TECHNICAL PARAMETERS:

- Curing rate: 2,0-3,0 mm/ 24 h (+23°C, 50% RH)
- Thermal resistance: -40°C to +110°C
- Working temperature: +5°C to +40°C
- Shrinkage (ISO 10563): 2,5 ±0,5%
- Module at 100% elongation (ISO 37)
- 0.975 MPa Elongation at break (ISO 8339): 205 ± 25%
- Shore A hardness (ISO 868) 45 ± 2
- Temperature resistance: -40°C to +110°C
- Colour: white, transparent

Product name	Content	Packaging	Pieces per box	Pieces per pallet
MS 35 Hybrid Sealant	310 ml	Cartridge	12	1 140

Building

Silicone

Neutral curing silicone that creates a flexible, nonshrink and waterproof joint. It has an excellent adhesion to common construction materials, both porous and smooth, including: concrete, brick, wood, glass, glaze, steel, aluminium, enamelled, laminated and varnished surfaces, and plastics.



APPLICATIONS:

- · Sealing of connections, expansion joints and building crevices
- Pointing joints in construction elements made of concrete, wood, metal, brick or plastic
- Sealing applications in electrical and electronic industries

BENEFITS:

- · Does not cause corrosion of metal or concrete
- Resistant to UV radiation and weather conditions
- . Resistant to significant temperature changes

TECHNICAL PARAMETERS:

- Colour: white, transparent, black, grey, . brown
- System of curing: neutral
- Curing rate: 3,0 mm/ 24 h (+23°C, 50% RH)
- Thermal resistance: -40°C to +100°C
- Working temperature: +5°C to +40°C
- Shrinkage (ISO 10563): ≤ 45%
- Module at 100% elongation (ISO 8339): 0,35 ± 0,05 MPa
- Movement accommodation (ISO 9047): ±25%
- Elongation at break (ISO 8339): 150 ± 50%
- Elastic recovery (ISO 7389): 97 ± 2%
- Shore A hardness (ISO 868): $18 \pm 2 T$
- Temperature resistance:
- -40°C to +120°C

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Building Silicone	310 ml	Cartridge	12	1 4 4 0



C-15

PRIMER C-15

PU Primer

Professional primer applied to improve the adhesion of polyurethane sealants to porous surfaces such as concrete, terrazzo, brick, wood. A thin layer of primer should be applied to the surface with a dry, clean brush prior to the application of sealant. In the case of very porous materials, two coats of C-15 PU Primer should be applied.

APPLICATIONS:

- · Priming of structural expansion joints in concrete
- floorsPriming joints in floors on terraces, balconies,
- as well as vertical expansion joints in balustrade
- walls
- Priming joints in wall fences made of concrete,
- brick, stone

Product name	Content	Packaging	Pieces per box	Pieces per pallet
C-15 PU Primer	1000 ml	Aluminum bottle	4	800

Back Up Rod

A round rod made of closed-cell polyethylene foam, designed to fill expansion joints to help accommodate joint movement. It is perfect to seal the air flow and prevent heat loss. The Back Up Rod has a very good compatibility with other common building materials. Suitable for sealing damp joints.

APPLICATIONS:

• Filling expansion joints prior to sealant application

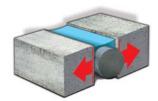
BENEFITS:

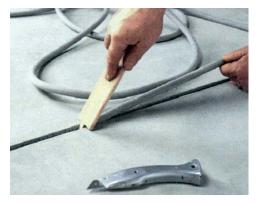
- Helps to accommodate joint expansion and contraction
- Reduces the risk of joint cracking
- Reduces sealant consumption
- Easy-to-install

Example of a joint made without the use of a Back Up Rod. The sealant adheres to three substrates, which increases the risk of sealant crack.

Example of a joint made with the use of a Back Up Rod.









Based on different technologies which guarantee a strong and permanent fixing in different substrates in a fast and safe way. The use of chemical anchors is a must when fixing heavy load elements and during the installation of profiles in facades.

All chemical anchors in Selena portfolio hold the European ETA certificates which testify that they can be safely introduced in your projects.

How to specify the right resin:

Polyester Styrene Free

The 2-component injection resins are fast and easy to use and are recommended for medium load applications in interior and exterior walls.

Vinylester Styrene Free

The vinylester resins are characterized by, among others, a very high chemical resistance, especially in alkaline medium and have good thermal properties. Can be used for heavy duty applications including in underwater structures.

Epoxy Styrene Free

Epoxy resin has the highest mechanical and thermal properties and an exceptional resistance to chemicals. Can be used in diamonddrilled holes and larger gaps, including in underwater structures.















EV II

Chemical Anchor – Vinylester Styrene Free

A high performance, rapid curing two-component chemical anchoring system. Vinylester resin provides thermal and chemical resistance, combined with ease of use. Designed for very high loads and critical fixings especially in corrosive environments or damp conditions.



APPLICATIONS:

- For heavy duty and critical applications
 - in masonry and concrete
 - Anchoring in cracked and non-cracked concrete
- Hollow walls
- Critical fixings in corrosive environments
- Fixing in Damp Envrionments

BENEFITS:

- Heavy duty load applications
- Non-flammable and non-hazardous
- Suitable for underwater applications
- Very high chemical resistance
- Very good thermal and mechanical properties
- European ETA certificate

	Concrete, fck, cube = 25 N/mm² (C20/25) 5,8 Grade Steel Studding					
Size	Characte	ristic Resistance (kN)		rended Load (kN)		
JIZE	Tension (Nrk)	Shear (Vrk)	Tension (Nrk)	Shear (Vrk)		
M8	19	9	9,1	5,1		
M10	30,2	15	14,4	8,6		
M12	43,8	21	20,9	12		
M16	67,8	39	32,3	22,3		
M20	104,6	61	49,9	34,9		
M24	133	88	63,3	50,3		

Product name	Content	Packaging	Pieces per box	Pieces per pallet
	300 ml	Cartridge	5	1 050
EV II Chemical Anchor	300 ml	Cartridge	12	1260
– Vinylester Styrene Free	380 ml	Cartridge	б	750
	380 ml	Cartridge	12	1 152

EV III

Chemical Anchor – Epoxy Styrene Free

Epoxy Low Odour Resin is a high performance, slow curing two-component chemical anchoring system. Applied through attached mixing nozzle directly into fixing hole. When cured this resin will produce an extremely strong, chemical resistant fixing.

Α	PI	PL	IC/	٩ΤΙ	0	N	S:
		_				••	٥.

- Filling of deep and wide openings
- Deep embedment installations
- Anchoring in non-cracked concrete
- Solid substrates
- Anchoring of reinforcing bars
- Rebar and threaded installations

BENEFITS:

- Universal fixing resin
- Very heavy duty load applications
- Can be used in dry and wet conditions
- Suitable for underwater applications
- Extremely high chemical resistance
- Zero shrinkage
- Close edge distance and small spacing

	Concrete, fck, cube = 25 N/mm² (C20/25) 5,8 Grade Steel Studding				
Size	Characteristic Resistance (kN)			rended Load (kN)	
Size	Tension (Nrk)	Shear (Vrk)	Tension (Nrk)	Shear (Vrk)	
M8	19	9	9,1	5,1	
M10	30,2	15	14,4	8,6	
M12	43,8	21	20,9	12	
M16	81,6	39	38,9	22,3	
M20	104,6	61	49,9	34,9	
M24	133	88	63,3	50,3	

Product name	Content	Packaging	Pieces per box	Pieces per pallet
EV III Chemical Anchor – Epoxy Styrene Free	400 ml	Cartridge	10	950



EVW

FACADE SEALING, BONDING & ANCHORING

Chemical Anchor – Winter Styrene Free

A high performance, rapid curing two-component chemical anchoring system. Developed using a high reactivity resin, which enables it to be used at temperatures as low as -18°C. The resin has lower viscosity than standard resins which allows it to be extruded at low temperature.



- Anchoring in:
 - hollow wall
 - brickwork
 - masonry and non-cracked concrete
 weak substrates where expandable dowels cannot be used

BENEFITS:

- Suitable for use at very low temperatures
- Can be extruded if both substrate and cartridge temperature is as low as -18°C
- Medium and heavy duty load applications in low temperatures
- High durability
- Can be used on wet substrates

	Concrete, fck, cube = 25 N/mm² (C20/25) 5,8 Grade Steel Studding				
Size	Characteristic Resistance (kN)			rended Load (kN)	
SIZE	Tension (Nrk)	Shear (Vrk)	Tension (Nrk)	Shear (Vrk)	
M8	19	12,70	9,07	160	
M10	30,2	20,10	14,36	200	
M12	43,8	23,96	17,11	240	
M16	81,6	34,70	24,78	320	
M20	127,4	53,41	38,15	400	
M24	183,6	68	48,57	480	

Product name	Content	Packaging	Pieces per box	Pieces per pallet
EV W Chemical Anchor – Winter Styrene Free	300 ml	Cartridge	5	1 050

EV IV S

Seismic Chemical Anchor

High strength professional two-component seismic chemical anchor for use in different base materials. Epoxy resin provides thermal and chemical resistance, combined with ease of use. Seismic qualification according to European Guideline EOTA ETAG-001 Annex E-C2.



APPLICATIONS:

- Seismic refurbishment
- Heavy building and industrial construction
- Heavy electrical, hydraulic and tiling area
- Underwater applications and flooded holes
- All kinds of curtain walls and different materials: steel, concrete (non-cracked and cracked), stone, solid brick, wood

BENEFITS:

- High seismic performance (certified according to annex E-C2)
- Fire resistance
- High strength, strong bond, durability

TECHNICAL PARAMETERS*:

- Application temperature: -40°C to +40°C (T° max long period = 24°C) and -40°C to +80°C
- (T^o max long period = +50^oC)
- Storage temperature: +5 °C to +30°C
- Open time at +25°C: 30 min
- Curing time at +25°C: 14 h
- Shelf life: 24 months
- Minimum product temperature or application: +5°C
- Setting conditions (depends on temperature) Data regarding loads, efficiency, setting times and installation procedure in TDS.

Product name	Content	Pieces per box	Pieces per pallet
	265 ml	20	1300
EV IV S Seismic Chemical Anchor	470 ml	12	780
	900 ml	6	390



Polyurethane **Mounting Adhesive**

Construction adhesive characterized by extremely high bonding strength and high mechanical resistance. Designed for bonding all materials, for interior and exterior use. Does not contain any solvents. The product is available in colours: beige and transparent.



- Bonding wood and wood-based materials
- (e.g. windows, doors, furniture, stairs,
- balustrades, garden structures, roof truss) Bonds elements made of metal, aluminium, copper, .
- stainless steel and zinc-plated steel
- Artificial and natural stone, drywall, insulation boards, brick, ceramics and concrete
- Glass, PVC, plastics, insulation materials
- (e.g. polystyrene, polyurethane foam, glass wool)

BENEFITS:

- Extreme bonding strength 400 kg/ 10 cm²
- Reach 50% of final strength after 20 min .
- Waterproof class D4 -
- Does not flow from vertical surfaces
- Strong mechanical and chemical resistance
- Excellent adhesion to most substrate
- . Can be used for uneven substrates

TECHNICAL PARAMETERS:

- Working time: 8–10 min
- Clamping time: 30 min
- . Full cure: 24 h
- Application temperature: +5°C to +30°C .
- Temperature resistance: -40°C to +100°C
- Colour: beige, transparent

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Polyurethane Mounting Adhesive	310 ml	Cartridge	12	1 440

Heavy Duty

Mounting Adhesive

Solvent based adhesive with high initial grip and possibility of use at temperatures below 0°C. Especially recommended for bonding heavy elements during finishing and renovation works.



APPLICATIONS:

- Bonding skirting boards, plinths, thresholds, panels, ceramic tiles
- Bonding most common building materials such as brick, ceramics, wood, PVC, glass, metal
- Especially recommended for bonding heavy
- building elements on vertical surfaces without support

BENEFITS:

- Strong initial tack: 150 kg/m²
- High bonding strength: 400 kg/ 10 cm²
- Can be used at negative temperatures (from -20°C)
- Resistant to moisture and changing weather
- conditions
- Can be used indoors and outdoors
- Excellent adhesion to most materials
- (both absorbent and non-absorbent)

TECHNICAL PARAMETERS: Working time: 5–7 min

- Application temperature: -20°C to +30°C . Full cure: up to 72 h
- Temperature resistance: -40°C to +100°C

	Product name	Content	Packaging	Pieces per box	Pieces per pallet
	Heavy Duty Mounting Adhesive	310 ml	Cartridge	12	1 440
		100 ml	Tube on blister	12	1 080





Gallop Fix

FACADE SEALING, BONDING & ANCHORING

Fast Curing Mounting Adhesive

Fast Curing and very strong mounting hybrid based adhesive. It is indispensable in a situation where we expect rapid bonding effect (when you want to quickly use bonded elements). It forms a very strong bond that can be loaded already after 20 min since the application, and its full strength is reached after approx. 3 h. The bond formed perfectly dampens vibrations, is resistant to weather, UV radiation and diluted chemicals.

APPLICATIONS:

- Bonding a wide range of finishing materials to typical surfaces such as: concrete, plaster, chipboard, wood, bricks, glass
- Bonding skirting boards, pedestals, thresholds, panels, ceramic tiles
- Bonding decorative elements of wood, cork, chipboard, metal, stone, laminates, expanded polystyrene (EPS), marble
- Bonding plastics (except PE, PP and Teflon)
- Bonding mirrors

TECHNICAL PARAMETERS:

- Colour: white
- Correction time: 5 min
- Full strength after approx. 3 h
- Temperature resistance: -30°C to +90°C
- Low emission product

BENEFITS:

- Dries 8 x faster
- Can be loaded after 20 min
- Very high bonding strength:
- up to 400 kg/ 10 cm² • Bonds all materials
- Can be used on damp substrates
- Water resistant
- For interior and exterior
- Ecological: does not contain solvents, silicones and isocyanates
- Neutral: does not corrode metals, does not damage delicate surfaces
- The joint can be painted

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Gallop Fix	310 ml	Cartridge	12	1 440
Fast Curing Mounting Adhesive	100 ml	Tube on blister	12	1 080

Vector Rapid

Mounting Adhesive High-Tack

MS-Polymer based adhesive with very high initial tack (200 kg/m²), designed for all mounting and finishing works. Indispensable in a situation where (especially heavy) elements are bonded to the walls, facades or ceilings without support.



APPLICATIONS:

- Excellent adhesion to all substrates used in construction (with the exception of PP, PE, Teflon and bitumen): wood, glass, mirror, metal, stone, PVC, ceramic tiles, polystyrene, brick, plaster, marble e.t.c
- Especially recommended for bonding elements to walls, facades or ceilings (also heavy ones), without using mechanical fasteners, e.g., it is well suited for bonding mirrors

TECHNICAL PARAMETERS:

- Working time: 15 min
- Curing rate: 3 mm/ 24 h
- Application temperature: +5°C to +30°C
- Temperature resistance: -40°C to +90°C
- Colour: white, grey, anthracite, brown, black
- Low emission product (transparent version)

BENEFITS:

- Strong initial grab: 200 kg/m²
- Very high bonding strength:
- 350 kg/ 10 cm² • Bonds all materials
- Bonus an materia
 Waterproof joint
- Very high chemical and mechanical resistance
- For interior and exterior
- Ecological: does not contain solvents, silicones
- and isocyanates
- Neutral: does not corrode metals, does not damage delicate surfaces
- The joint can be painted

Product name	Content	Packaging	Pieces per box	Pieces per pallet
Vector Rapid	310 ml	Cartridge	б	1 440
Mounting Adhesive High-Tack	100 ml	Tube on blister	12	1 080



Chemical Anchor Gun



Easy-to-use professional extruder for application of two-component products in 380 ml cartridges.

BENEFITS:

- Compact construction .
- .
- Very long life Can be used for application of dense, . two-component materials in coaxial cartridges

TECHNICAL PARAMETERS:

TECHNICAL PARAMETERS:

• For 600 ml foils

• For two-component 380 ml cartridges

Product name	Packaging	Pieces per box
Vector Heavy Duty Caulking Gun	Box	1

Manual Gun 600 ml

High quality manual extruder for dispensing caulks and adhesives in 600 ml foil packs.



Vector

Heavy Duty Caulking Gun

Very high quality, professional and easy to use extruder for application of sealants and adhesives in 310 ml cartridges.

BENEFITS:

- Compact construction .
- Very long life Very high quality . .

TECHNICAL PARAMETERS:

• For 310 ml cartridges

WATCH SELENA VIDEO:



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