SEED CHEMICALS

CONSTRUCTION CHEMICALS

Product & system guides

Products for waterproofing, repair, finishing and flooring, with clear descriptions, applications and technical references.

IZONIL

IZONIL QUATRO	2
IZONIL Skim Coat	3
IZONIL Universal (Plus)	4
IZONIL Universal	5
IZONIL WPS / WPG	6

TENSYL

TENSYL CC101 Cementitious Waterproof Coating	7
TENSYL PT 101 Wall Putty	8
TENSYL Fibreglass Mesh	9
TENSYL BJ101 Block Jointing Mortar	10
TENSYL Repair Mortar	11
TENSYL Non-Shrink Grout	12
TENSYL Ready-Mix Plaster	13
TENSYL SBR	14
TENSYL PCE Plasticiser	15
Industrial epoxy flooring	16
TENSYL Anti-Static Epoxy Flooring	17

VELOSIT

VELOSIT WP 100	18
VELOSIT WP 124	19
VELOSIT CW 111	20
VELOSIT CA 112	21
VELOSIT PC 221	22
VELOSIT RM 202	23
VELOSIT RM 205	24
VELOSIT RM 211	25
VELOSIT SL 501	26
VELOSIT SL 502	27
VELOSIT SL 503	28
VELOSIT NG 512	29
VELOSIT PA 911	30
VELOSIT WS 805	31
VELOSIT DB 830	32

Product and system overviews. The applicable technical and safety data sheets and selected system specifications govern application and handling. Pack references do not establish current local availability.

EPS-BEAD LIGHTWEIGHT MORTAR

IZONIL QUATRO

Lightweight mortar for concrete roofs and floors

IZONIL QUATRO is a cement-based lightweight mortar, mixed on site with EPS beads and clean water. It combines thermal and sound insulation with waterproofing and breathability for concrete roofs and floors.

MIX PROPORTIONS

QUATRO powder	22 kg
EPS beads	60 L
Clean water	11–12 L

Reference quantities for one complete batch.



Manufacturer packaging reference.



On-site mixing of QUATRO mortar.



Lightweight mortar over a concrete floor base.

Product benefits

Thermal and sound insulation

EPS beads give the mortar its lightweight character and contribute thermal and sound insulation to the roof or floor build-up.

Waterproof and breathable

Combines resistance to water penetration with vapour permeability, allowing moisture in the concrete substrate to evaporate.

Material and application

Product form	Grey dry-mix powder, blended with EPS beads and water on site.
Composition	Portland cement, silica sand, Izocomponent and polypropylene (PP) fibres.
Suitable applications	Above-ground horizontal concrete roof decks and floors, in new construction or renovation.

Mixing overview

1. **Clean water**
2. **Add powder**
3. **Wet slurry**
4. **Add EPS**
5. **Mix again**
6. **Discharge**

Water and QUATRO powder are mixed to form a smooth slurry. EPS beads are then incorporated and mixed evenly before the mortar is discharged.

Application notes

For above-ground horizontal concrete only. QUATRO forms part of the roof or floor build-up; it does not replace the structural slab and is unsuitable for underground tank lining. Substrate preparation, detailing, finishes and curing are covered by the product application instructions.

Product overview. The applicable technical and safety data sheets govern application and handling. Composition and mix proportions: IZONIL QUATRO technical data sheet, June 2018.

WATERPROOF, BREATHABLE FINE WALL FINISH

IZONIL Skim Coat

IZONIL Skim Coat is a waterproof, breathable, super-white skim coat for exterior and interior plastered or concrete walls, including rain-exposed and water-prone wall areas.

PRODUCT PROPERTIES

Wall-finish role	Waterproof.
Vapour behaviour	Breathable.
Finish	Fine and super white.



Manufacturer packaging reference.



Fine white skim coat on a concrete wall.



A fine white finish on a vertical mineral wall.

Uses and benefits

Fine white wall finish

Provides a fine, super-white surface on suitable vertical plastered, precast-concrete and cast-in-place-concrete walls, indoors and outdoors.

Waterproof and breathable

Resists liquid rain while allowing moisture vapour to leave the wall. Compatible vapour-open decoration preserves this breathable-wall role.

Material and application

Applications	For suitable vertical plastered walls and precast or cast-in-place concrete, including exterior and interior wall finishing.

Application notes

This overview covers vertical wall finishing. Tanks, floors, roof decks, moving cracks and pressure-loaded assemblies require a separately specified complete system.

Preparation, coat build-up and weather protection depend on the supplied Skim Coat variant, regional application method and project conditions.

Product overview. The applicable technical and safety data sheets govern application and handling.

The June 2018 White Superfine sheet is a historical reference; its match to the supplied Skim Coat variant and regional method remains unverified.

WATERPROOF, VAPOUR-PERMEABLE MASONRY PLASTER

IZONIL Universal (Plus)

IZONIL Universal (Plus) is a cementitious plaster that combines waterproofing with vapour permeability on above-ground brick and block walls.

MATERIAL AND APPLICATION

Product role	Cementitious plaster.
Substrate	Brick and block masonry.
Location	Above-ground vertical walls.



Standard IZONIL Universal bag, shown for reference.



Cementitious plaster on above-ground brick masonry. Conceptual masonry detail; not to scale.

Uses and benefits

Waterproof and breathable

Provides a waterproof plaster layer while allowing moisture vapour to pass through the finish.

Above-ground masonry

For vertical brick and block masonry. A compatible vapour-open final finish preserves the plaster's breathable role.

Application notes

This overview covers above-ground vertical brick and block masonry. Suitability for other substrates or locations requires product-specific assessment.

The complete wall build-up depends on the masonry type, wall condition, exposure and supplied Universal (Plus) formulation. Application details are product- and project-specific.

Product overview. The applicable technical and safety data sheets govern application and handling.

WATERPROOF, BREATHABLE MASONRY PLASTER

IZONIL Universal

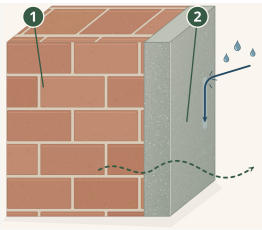
IZONIL Universal is a grey cement-based plaster for above-ground brick and block walls, combining rain protection with moisture-vapour movement.



Manufacturer packaging reference.

MATERIAL AND APPLICATION

Product role	Grey cement-based plaster.
Wall location	Above-ground vertical brick and block masonry.
Finish role	Waterproof, breathable plaster finish.



Grey plaster on above-ground brick masonry.

1 Brick masonry

2 Grey plaster



Grey plaster on an above-ground masonry wall.

Uses and benefits

Rain protection

Provides a waterproof plaster finish for above-ground clay-brick, concrete-brick and concrete hollow-block walls in new construction or renovation.

Breathable wall finishing

Allows moisture vapour to move through the plaster. Compatible vapour-open decoration and the specified movement-joint details form part of the wall build-up.

Material and application

Applications	For external and internal vertical clay-brick, concrete-brick and concrete hollow-block walls above ground, in new work or renovation requiring a waterproof, breathable plaster.

Application notes

The application scope is above-ground vertical masonry. Underground walls, tanks, floors and poured-concrete applications require separate product-specific assessment.

Application is unsuitable in direct sun, strong wind or rain, or when freezing is expected. The complete application method depends on the supplied Universal formulation and project conditions.

Product overview. The applicable technical and safety data sheets govern application and handling.

The undated Pakistan reference is not verified against the supplied formulation and contains a product-name mismatch in its temperature instruction.

MINERAL FILLING FOR CONTAINED DETAILS

IZONIL WPS / WPG

WPS is a dry sand-based filler for contained local details. WPG is a gravel-based material for a contained underlayer beneath foundations. Each relies on the surrounding assembly and a project-specific system detail.

MATERIALS AND USES

WPS	Dry sand-based local fill.
WPG	Gravel-based foundation underlayer.
Selection basis	Project-specific contained-fill assembly.



WPS sand-based fill and WPG gravel-based material.



Dry WPS in a contained local detail.

Uses and benefits

WPS local filling

A dry sand-based material for contained local details in concrete. Its role depends on the crack or penetration condition, movement, substrate and water exposure.

WPG foundation underlayer

A gravel-based material for a contained layer beneath concrete foundations. The surrounding construction and complete containment detail define its place in the assembly.

Material and application

WPS application	Contained horizontal cracks and pipe or metal penetrations in concrete, subject to assessment of the actual condition and an approved complete detail.
WPG application	A contained underlayer beneath concrete foundations, subject to a complete containment system suited to the foundation and water exposure.

Application notes

Both applications depend on a project-specific, approved containment and surrounding-assembly detail, including any required companion materials.

A verified complete containment detail and installation method are not included in this overview.

Product overview. The applicable technical and safety data sheets govern application and handling.

TWO-PART CEMENTITIOUS WATERPROOFING COATING

TENSYL CC101 Cementitious Waterproof Coating

TENSYL CC101 is a two-part cementitious waterproofing coating for prepared mineral surfaces. Typical uses include wet areas and below-tile waterproofing.

FULL-KIT MIX REFERENCE

Part A · full kit	5 L liquid
Part B · full kit	22 kg powder
Added water · full kit	5 L clean water

Reference quantities for one complete kit.



Selected Part B packaging illustration.



Cementitious coating on a prepared mineral surface.



Corners and penetrations belong to the complete waterproofing detail.

Uses and benefits

Wet areas and below-tile work

A coating layer for specified waterproofing on prepared mineral surfaces, including areas beneath a tile finish.

Part of the waterproofing detail

The coating works within a project detail that includes corners, joints, drains, service penetrations and the intended finish.

Material and application

Substrate	Prepared mineral surfaces.
Typical locations	Wet areas and below-tile work.

Application notes

Suitability depends on the substrate, existing surface and repairs, water exposure and the face being coated. Preparation, mixing, coating build-up, application sequence and curing are covered by the product- and project-specific instructions.

The quantities shown apply to a complete kit only. Partial-batch quantities are not specified here and depend on the instructions for the supplied components.

Product overview. The applicable technical and safety data sheets govern application and handling.

Kit references do not confirm current supply or availability.

WATER-RESISTANT CEMENT-BASED PUTTY

TENSYL PT 101 Wall Putty

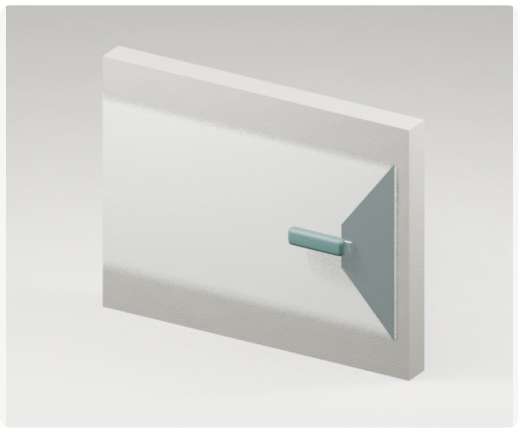
TENSYL PT 101 is a conventional cement-based, water-resistant wall putty for smooth, super-white finishing before painting.

PRODUCT PROPERTIES

Product identity	Cement based.
Product identity	Water resistant.
Finish	Smooth and super white.



Selected packaging illustration.



Wall putty on a mineral surface.



Filling minor surface variation.



Smooth, super-white finish before painting.

Uses and benefits

Smooth finish before painting

Forms a smooth, super-white finishing surface for wall paint preparation.

Water-resistant putty

A conventional cement-based finish with water resistance. Suitability depends on the selected PT 101 formulation, wall and paint system.

Application notes

Permitted wall substrates, exposure, surface preparation and primer requirements are formulation-specific.

Water ratio, coat thickness, drying, sanding and the painting sequence are not specified here. Compatibility with the selected paint is a separate system requirement.

Product overview. The applicable technical and safety data sheets govern application and handling.

REINFORCEMENT ACCESSORY

TENSYL Fibreglass Mesh

TENSYL Fibreglass Mesh is a 145 g/m² reinforcement accessory for specified plastering and coating systems. It is embedded within a compatible receiving coat.

ROLL SPECIFICATION

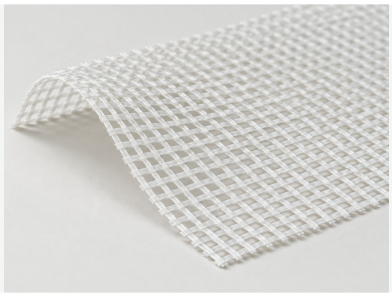
Supplied roll	145 g/m².
Roll dimensions	1 m × 50 m.



Packaging illustration.



Fibreglass mesh embedded within a receiving coat.



Woven fibreglass reinforcement for a compatible coat.

Uses and benefits

Reinforcement within the coat

The woven fibreglass fabric provides reinforcement within the selected plaster or coating build-up.

Wall areas and details

Reinforcement locations, including corners, openings and terminations, follow the receiving system's specification.

Application notes

Compatibility is specific to the receiving coat; the supplied roll identity does not establish suitability with every mortar.

Aperture, tolerances and alkali-retained strength with test methods are not specified here. Embedment, lap and termination details are determined by the complete receiving-system specification and installation method.

Product overview. The applicable technical and safety data sheets govern application and handling.

CEMENT-BASED THIN-BED BLOCK MORTAR

TENSYL BJ101 Block Jointing Mortar

TENSYL BJ101 is a cement-based thin-bed mortar for laying suitable AAC, CLC and concrete blocks.

PRODUCT REFERENCES

Pack	20 kg paper bag.
Joint reference	3–4 mm.
Block types	AAC, CLC and concrete blocks.
Mixing-water reference	4–5 L per 20 kg.
Application-temperature reference	5–40°C.
Shelf-life declaration	12 months.

Reference values only. The complete mixing, laying and application method and site conditions remain product- and project-specific.



Selected packaging illustration.



Thin mortar bed and joints between AAC blocks.



Thin-bed blockwork within the specified wall detail.

Uses and benefits

Thin-bed blockwork

Forms the thin mortar bed and joints between suitable blocks within the specified wall detail.

Block and wall compatibility

The block material, manufacturer, size and dimensional tolerances inform compatibility and the complete bedding, joint and connection details.

Application notes

Mixing, laying, adjustment, working times, block conditioning and protection depend on the product-specific method and site conditions.

Strength values require matched test methods and reports. The 12-month shelf-life declaration depends on qualified storage conditions, which are not specified here.

Product overview. The applicable technical and safety data sheets govern application and handling.

CONCRETE SURFACE REPAIR MORTAR

TENSYL Repair Mortar

TENSYL Repair Mortar is a mortar for filling local defects in concrete surfaces. Suitability depends on the defect's depth, orientation and cause, and the condition of the surrounding concrete.



Packaging illustration.

PACK AND WATER REFERENCE

Product name	Repair Mortar.
Pack	20 kg paper bag.
Water reference	4.0–4.4 L per 20 kg bag.

Water reference for one 20 kg bag; consistency and mixing sequence are product-specific.



Local mortar repair in a concrete surface.



Assess the defect and surrounding concrete before selecting the repair.

Uses and benefits

Local surface repair

For reinstating a prepared local concrete surface defect as part of an assessed repair.

Part of the repair build-up

The repair is selected to suit later coatings, water exposure and the service conditions of the concrete.

Application notes

The product name does not establish a structural classification. Exposed reinforcement or concerns about member capacity may require an engineered repair assessment. Repair-depth limits, overhead suitability and reinforcement treatment are not established here.

The water range is a reference for this grade, not a complete repair method. Consistency, mixing sequence, working time, substrate and reinforcement preparation, placement depth and orientation, temperature, curing and loading depend on the matched product-specific instructions and strength evidence.

Product overview. The applicable technical and safety data sheets govern application and handling.

The pack reference does not confirm current supply or availability.

CEMENTITIOUS GROUT FOR SUPPORT GAPS

TENSYL Non-Shrink Grout

TENSYL Non-Shrink Grout is a cementitious grout for designed support gaps beneath baseplates, column bases and bearings.

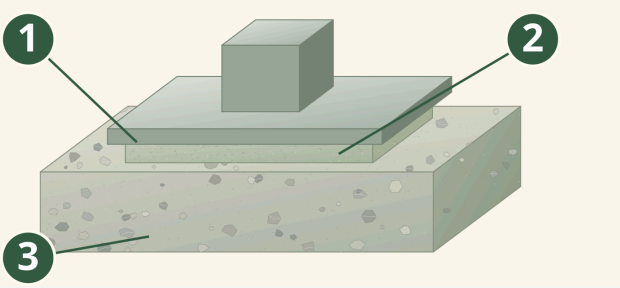
PACK REFERENCE

Catalogue pack	25 kg.
Supply format	Paper bag.

Catalogue pack reference; actual supplied weight and current availability remain subject to SEED confirmation.



Selected packaging illustration.



Grout support beneath a baseplate.

1. Baseplate
2. Grout support
3. Concrete foundation



A separate grout support layer beneath the baseplate.

Uses and benefits

Baseplates and column bases

For the designed support gap between a foundation and a baseplate or column base.

Bearing interfaces

For specified bearing applications where grout forms a separate support layer at the connection.

Application notes

A tested non-shrink classification requires product-matched expansion evidence; strength-test evidence must also suit the specified connection. The product name alone does not establish a tested classification.

Water content for the selected consistency, yield, flow, placement depth, formwork, working time and temperature, curing and loading readiness are defined by the matched NG 101 instructions. Gap dimensions, filling and air-release access, placement method, service loads and the loading programme remain project-specific.

Product overview. The applicable technical and safety data sheets govern application and handling.

PREMIXED WALL-PLASTERING MORTAR

TENSYL Ready-Mix Plaster

TENSYL Ready-Mix Plaster is a premixed plastering mortar for specified block, brick and concrete-wall work.

PACK REFERENCE

Catalogue pack	40 kg.
Supply format	Paper bag.

Catalogue pack reference; current supplied pack weight and availability are not established by this overview.



Selected packaging illustration.



Fresh plaster being worked onto a block wall.



The plastering layer forms part of the selected wall build-up.

Uses and benefits

Wall plastering

Provides the plastering layer for specified block, brick and concrete walls as part of the intended wall build-up.

Premixed supply

The mortar is supplied premixed in a paper-bag format. The selected PL 101 formulation determines its application route and suitability for the intended finish.

Application notes

Suitability depends on the wall material and condition, existing surface treatments, interior or exterior exposure and selected PL 101 formulation. Colour and hand- or machine-application variants are formulation-specific.

Water ratio, mixing, working time, thickness, yield, substrate and bonding preparation, curing and finish readiness are not specified here.

Product overview. The applicable technical and safety data sheets govern application and handling.

LATEX FOR BONDING AND MORTAR MODIFICATION

TENSYL SBR

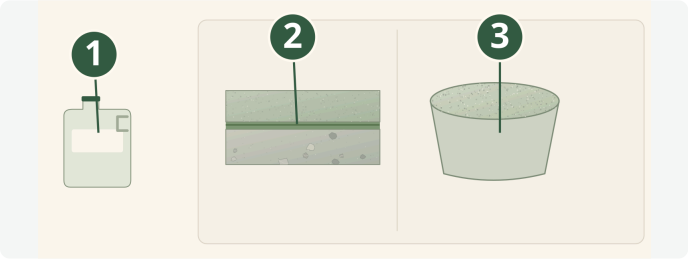
TENSYL SBR is a styrene-butadiene rubber latex for bonding treatments and the modification of compatible cementitious mortars, including repair mortars and screeds.

MATERIAL AND USES

Material identity	SBR latex.
Specified roles	Bonding and mortar modification.



Selected packaging illustration.



SBR latex in bonding and mortar-modification applications.

1. SBR latex
2. Bonding role
3. Admixture role



Compatible repair mortars and screeds are among the specified modification uses.

Uses and benefits

Bonding treatments

For a specified bonding treatment at the receiving surface, matched to the material placed over it.

Mortar modification

For use as a modifier in compatible repair mortars and screeds, with proportions suited to the intended application.

Application notes

Bonding treatments and mortar modification have different requirements for compatible materials, proportions and application timing. Dilution and dosage depend on the intended role, surface or mortar constituents, later materials and exposure; no universal mix ratio is given.

The supplied grade and net contents, solids, density, pH, application temperature, curing and storage conditions are not specified here and depend on the matching SB 101 product information.

These bonding and modification uses do not establish a standalone waterproofing membrane or a guaranteed performance outcome.

Product overview. The applicable technical and safety data sheets govern application and handling.

PCE CONCRETE ADMIXTURE

TENSYL PCE Plasticiser

TENSYL PCE Plasticiser is a polycarboxylate-ether admixture for concrete mix development and production.

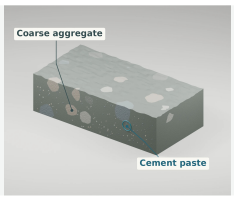
SUPPLY REFERENCE

Supply options	200 kg drum and IBC.

200 kg is the drum reference; IBC net contents and current availability remain unconfirmed.



Packaging illustration.



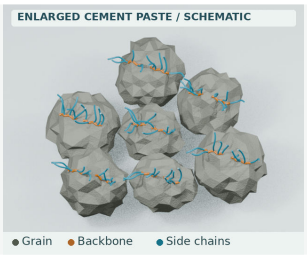
Conceptual concrete section; not to scale.

Uses and benefits

Ready-mix, precast and pumped concrete

For mixes developed around the required placing workability and retention.

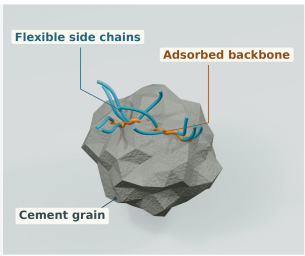
Dispersion in cement paste



General PCE mechanism; particle and molecular scales are independently enlarged. Timing is illustrative.

Fang et al., Materials 2023: PCE adsorption and dispersion
Sika ViscoCrete technology: general mechanism, pp. 10–11

PCE at the cement grain



In a general PCE mechanism, polymer backbones adsorb on cement grains while flexible side chains extend into the pore solution, helping keep the grains dispersed under mixing.

General PCE mechanism; molecular scales are illustrative.

Application notes

Formulation-specific instructions set the dose range, cement-versus-total-binder dosage basis and addition sequence. Trials with the actual binder, aggregates and other admixtures establish compatibility and performance under expected placing, transport and temperature conditions.

No universal water reduction, strength gain or retention time is specified. Solids, density, pH, chloride content, storage conditions and shelf life are not established here.

The illustrations show a general PCE mechanism, not verified TENSYL formulation chemistry or product performance.

Product overview. The applicable technical and safety data sheets govern application and handling.

PROJECT-SPECIFIED FLOOR SYSTEM

Industrial epoxy flooring

Industrial epoxy flooring is a project-specified system combining a prepared concrete base, compatible primer and selected wearing layer. The system is matched to traffic, exposure, appearance and maintenance needs.

SYSTEM COMPONENTS

Concrete base	Sound, assessed concrete supports the selected system.
Compatible primer	The primer interface is selected with the receiving substrate and later layer.
Selected wearing layer	The surface is selected for the operating duty and required finish.



Concrete base, compatible primer and selected wearing layer.



Select the finish for traffic, exposure and cleaning.

Uses and benefits

Industrial service

The wearing surface is selected around traffic, wheel loads, impact, chemical exposure, temperature and cleaning conditions.

Finish and maintenance

Appearance, texture and slip requirements form part of the complete specification, alongside maintenance and return-to-service needs.

Material and application

Project-selected additions	Repairs, levelling, moisture control and finish coats are included where the selected system requires them.

Application notes

Preparation and repairs depend on concrete condition, contamination, existing coatings, falls, joints and moisture findings. The selected specification includes checks against a representative appearance and texture sample.

Installation follows the complete compatible system and its matched method, with records of component identity, batches, shelf life, conditions and stage checks.

Layer thickness and cure time are system-specific; this overview establishes no universal kit or certification. Return to service depends on the selected system's finish and performance checks and project acceptance.

System overview. The selected system specification and component technical and safety data sheets govern application and handling.

The selected system specification and project acceptance plan govern the complete floor build-up.

PROJECT-SPECIFIED ELECTROSTATIC-CONTROL FLOOR SYSTEM

TENSYL Anti-Static Epoxy Flooring

TENSYL Anti-Static Epoxy Flooring is a project-specified floor system for industrial areas with defined electrostatic-control requirements.

SYSTEM ROLES

Compatible floor system	Complete project-selected manufacturer system.
Electrical interfaces	Designer-specified and reviewed connections.
Footwear and conditions	Project-specified footwear and operating conditions.
Recorded measurements	Project test methods and acceptance criteria.



Point-to-point floor-resistance test.



Electronics assembly areas have project-defined electrostatic-control requirements.

Uses and benefits

Electrostatic-control areas

For electronics assembly, testing and other processes within an ESD-control programme, with specified footwear and separately designed electrical interfaces.

Industrial floor requirements

The specification combines electrical requirements with mechanical duty, traffic, chemical exposure, cleaning, finish and slip requirements.

Material and application

Selected build-up	The complete selected manufacturer system determines compatible substrate preparation, primer, any required conductive arrangement, wearing layer and accessories.

Application notes

Substrate soundness, contamination, existing coatings, moisture and rising-moisture risk, cracks and joints determine selection and preparation. An agreed representative sample and inspection plan verify finish, bond and electrical performance with specified materials, footwear and test conditions before wider work.

The ESD designer, electrical-interface designer, installer and acceptance authority have distinct responsibilities. The responsible designer specifies electrical connections and changes; qualified personnel carry out this work under the area's ESD-control and electrical-safety requirements.

Component instructions govern handling, ventilation and exposure controls. The selected method includes records of batches, readings, stage acceptance and deviations, plus conductive-layer checks before covering where required.

The project test plan sets the applicable standard and edition, electrical behaviour, numerical pass limits, instruments, conditioning, sampling locations and footwear. The illustration shows point-to-point floor resistance only. Floor-to-ground resistance, person/footwear/floor resistance and body-voltage tests are separate. No reading, pass result, test spacing, electrical limit or certification is established, and no EN compliance is claimed.

Return to service follows signed project acceptance after specified cure, conditioning, cleaning and tests. Records cover readings, failures, corrective actions and retests. Handover includes component records, test reports and as-built electrical-interface records, with approved cleaning, repairs and periodic verification agreed with the maintenance owner.

System overview. The selected system specification and component technical and safety data sheets govern application and handling.

RIGID CEMENTITIOUS SURFACE WATERPROOFING

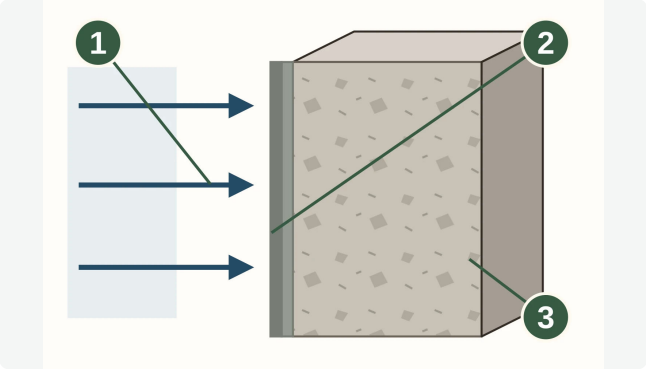
VELOSIT WP 100

VELOSIT WP 100 is a rigid cementitious coating that bonds to suitable concrete and masonry. It provides surface waterproofing on the selected face of the structure, as part of a complete waterproofing system.

PRODUCT AT A GLANCE

Material	Rigid cementitious coating
Bond	To a sound mineral substrate
Water exposure	Positive- or negative-side design

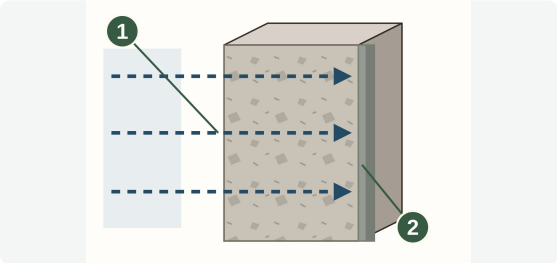
Positive-side waterproofing



Conceptual section; not to scale.

1. Water reaches the coating first
2. Rigid bonded coating
3. Mineral substrate

Negative-side waterproofing



Conceptual section; not to scale.

1. Water approaches through the substrate
2. Rigid bonded coating on the opposite face

Uses and benefits

Bonded surface waterproofing

Forms a waterproofing layer on suitable concrete and masonry, with the coating bonded directly to the mineral substrate.

Water-facing and reverse-side layouts

Positive- and negative-side arrangements place the coating on different faces of the structure. Each arrangement requires its own design assessment.

Material and application

Suitable surfaces	Concrete and suitable masonry with a sound, prepared mineral surface.
Positive side	Water reaches the coating before the mineral substrate.
Negative side	Water reaches the substrate before the coating on the opposite face.

Application notes

The rigid coating does not bridge moving joints. Joints, moving cracks and penetrations need compatible details, and active leaks need separate treatment.

Substrate condition, existing coatings, preparation, exposure and subsequent finishes remain part of the complete system design. Any required project approvals remain to be confirmed.

No pressure rating, coat count or coating thickness is specified in this overview.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT WP 100 manufacturer technical data sheet, edition 1322. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

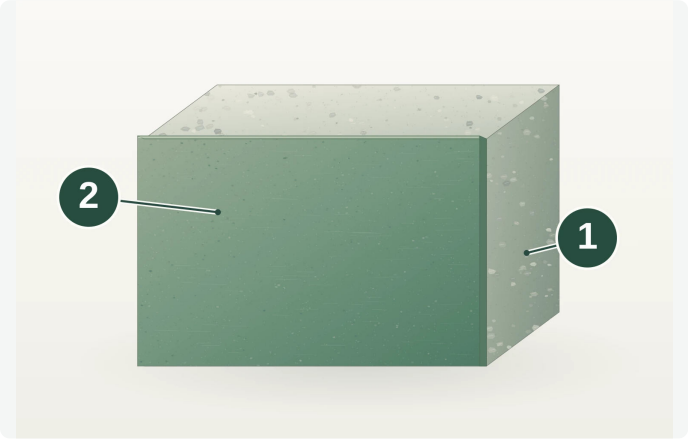
POLYMER-MODIFIED SURFACE WATERPROOFING

VELOSIT WP 124

VELOSIT WP 124 is a polymer-modified waterproofing coating for suitable mineral surfaces. Flexible and semi-flexible formulations have distinct application requirements and form part of the specified waterproofing build-up.

PRODUCT AT A GLANCE

Material	Polymer-modified coating
Formulations	Flexible or semi-flexible
System	Coating, interfaces and finish



WP 124 coating on a prepared mineral surface.

1 Prepared mineral substrate

2 Supported WP 124 coating



Continuous coating supported by the prepared mineral wall.

Uses and benefits

Mineral-surface waterproofing

Provides a surface waterproofing coating on a suitable, prepared mineral substrate.

Two formulation options

Flexible and semi-flexible formulations suit different specified applications. Each is used with its matching components and system requirements.

Application notes

Joints and penetrations need compatible details. Coating flexibility alone does not establish the allowable movement of a complete junction.

Water direction, movement, surrounding surfaces and the protective or decorative finish affect the complete build-up. Negative-side exposure and special surfaces require their specified supporting system and project acceptance.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT WP 124 manufacturer technical data sheet, edition 4525. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

CRYSTALLINE WATERPROOFING FOR CONCRETE

VELOSIT CW 111

VELOSIT CW 111 is a surface-applied crystalline waterproofing product for concrete. Its active ingredients create a water-blocking crystalline structure within the concrete.

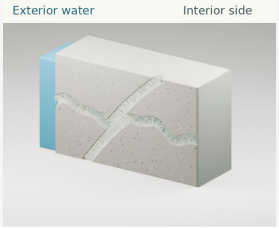
MANUFACTURER PACK

Manufacturer pack	25 kg bag.

Manufacturer pack reference; current local availability is unconfirmed.



Manufacturer packaging reference.



Crystalline waterproofing within a concrete section.



For concrete basements and below-ground structures.

Uses and benefits

Waterproofing within concrete

Crystalline action creates a water-blocking structure within the concrete after application at the surface.

Below-ground concrete structures

For concrete basements, below-ground structures, elevator pits and other manufacturer-listed structures that retain or exclude water.

Material and application

Application routes	Brush, spray or dry-shake application, according to the selected manufacturer method.

Application notes

CW 111 is for concrete, rather than plaster, masonry or decorative putties. Concrete condition, existing surface treatments and water exposure affect the selected application route.

Full crystalline waterproofing requires several days of water contact. Early handling does not mean the full waterproofing effect has developed.

Active leaks and leaking cracks need specified prior treatment. Joints and penetrations require separate details; no penetration depth is established here.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT CW 111 manufacturer technical data sheet, edition 1724. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

CRYSTALLINE WATERPROOFING ADMIXTURE

VELOSIT CA 112

VELOSIT CA 112 is a powder admixture added to fresh concrete. It initiates crystalline action within the concrete to reduce water permeability, as part of a properly designed, placed and cured concrete mix.

MANUFACTURER PACK OPTIONS

Manufacturer pack	20 kg watertight plastic bag.
Manufacturer pack option	1,000 kg BigBag.

Manufacturer pack options; current local availability is unconfirmed.



Manufacturer packaging reference.



Crystalline action from an admixture within concrete.



An admixture incorporated during concrete mixing.

Uses and benefits

Water resistance within the concrete

Added during mixing, CA 112 becomes part of the concrete and develops its crystalline waterproofing action within it.

Below-ground and water-retaining structures

For concrete basements, below-ground parking, slabs, elevator pits and other manufacturer-listed structures that retain or exclude water.

Material and application

Addition routes	Batch-plant, concrete-truck or suitable site mixing, with mix trials for the selected route.

Application notes

CA 112 is a concrete admixture, not an applied coating. Reinforcement, placement, compaction, curing and joint waterproofing remain essential parts of the concrete design.

Dosing is based on total mixing water, including aggregate moisture. A cement-percentage example is not a universal dosage rule.

Manufacturer mix requirements include cement content of at least 280 kg/m³ and a water/cement ratio below 0.55. Other constituent requirements and the supplied-product specification also apply.

Laboratory pressure and crack-healing results do not guarantee site performance. Moving joints need separate details. No drying timescale or guaranteed drying outcome is specified.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT CA 112 manufacturer technical data sheet, edition 2924. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

LOCAL LEAK PLUGGING AND RAPID SMALL REPAIRS

VELOSIT PC 221

VELOSIT PC 221 is a rapid-setting cement for local leak plugging and small repairs. It is used at confined openings and small defects in suitable mineral substrates, as part of the wider waterproofing arrangement.

PRODUCT AT A GLANCE

Material	Rapid-setting cement
Role	Confined local plug or small repair
System	Wider waterproofing assessed separately



Manufacturer packaging reference.



A local cement plug in a confined concrete opening.



Small repairs within a suitable mineral surface.

Uses and benefits

Local leak plugging

For confined local openings where a cement plug forms part of the complete water-control detail.

Small mineral-surface repairs

Rapid-setting cement for small defects in suitable mineral substrates, coordinated with any subsequent surface treatment.

Application notes

Anchoring requires its own connection design and installation instructions. Set speed and appearance do not establish load capacity or readiness for service.

Moving cracks, joints and the wider water route need separate assessment. Any potable-water approval requires matching evidence.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT PC 221 manufacturer technical data sheet, edition 1525. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

CEMENTITIOUS CONCRETE PROFILE REPAIR

VELOSIT RM 202

VELOSIT RM 202 is a cementitious repair mortar for rebuilding local defects and concrete profiles. It is used on suitable mineral surfaces within a specified repair system.

PRODUCT PROFILE

Material	Cementitious repair mortar
Role	Defect and profile rebuilding
Design	Repair interface and orientation



Manufacturer packaging reference.



RM 202 within a local concrete repair.



Rebuilding an assessed concrete edge and profile.

Uses and benefits

Local profile repair

Fills assessed defects and rebuilds the required profile in sound, prepared concrete and other suitable mineral substrates.

Repair orientations

For assessed horizontal repairs and specified vertical and overhead repairs, with the bonding interface and any reinforcement protection matched to the repair.

Application notes

Where the specification requires CP 201, a generic mortar scrub coat cannot replace it; priming routes are not interchangeable.

Repair extent, deterioration, substrate soundness, reinforcement condition, cover, support, subsequent layers and structural acceptance remain project-specific.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT RM 202 manufacturer technical data sheet, edition 1724. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

CONCRETE-SECTION REPAIR MORTAR

VELOSIT RM 205

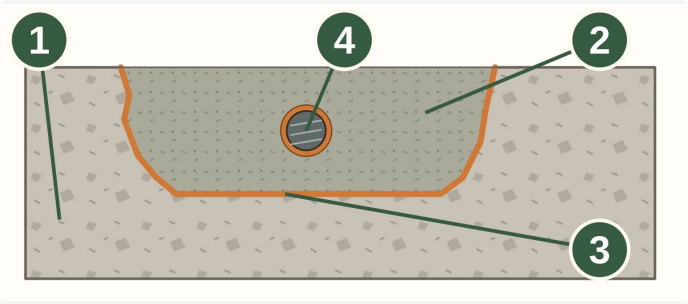
VELOSIT RM 205 is a cementitious mortar for rebuilding concrete sections within a specified repair system. It forms the repair layer alongside the required bonding and reinforcement protection.

PRODUCT PROFILE

Material	Cementitious repair mortar
Role	Concrete-section rebuilding
Interface	Specified bonding and protection



Manufacturer packaging reference.



RM 205 repair within a reinforced-concrete section.

1. Sound concrete
2. RM 205 repair mortar
3. Separately specified bonding interface
4. Reinforcement: assessment and treatment specified separately



Concrete-section rebuilding to the specified profile.

Uses and benefits

Concrete-section rebuilding

Fills assessed repair areas to form the required concrete profile, with repair geometry and reinforcement cover defined for the structure.

Bonded repair system

The referenced concrete application route requires CP 201 and the specified bonding and reinforcement-protection interfaces.

Application notes

Overhead suitability is not established by vertical guidance. Orientation, repair thickness, reinforcement condition, support, access and loading are subject to the repair specification.

Heat development and subsequent finishes form part of the repair design. A visually filled defect does not establish restored structural capacity or acceptance.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT RM 205 manufacturer technical data sheet, edition 1724. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

CRYSTALLINE CONCRETE REPAIR AND PREPARATION

VELOSIT RM 211

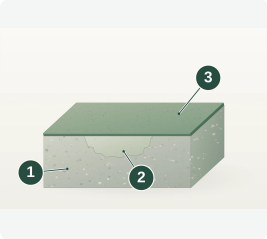
VELOSIT RM 211 is a rigid cementitious repair mortar with crystalline waterproofing properties. It fills suitable concrete defects as part of a separately specified waterproofing system.



Manufacturer packaging reference.

PRODUCT PROFILE

Material	Rigid cementitious repair
Role	Local concrete-defect repair
System	Separate waterproofing treatment



Local RM 211 repair beneath separate waterproofing.

1. Surrounding prepared concrete
2. Local RM 211 repair region
3. Separately specified waterproofing



Concrete surface defects assessed before repair.

Uses and benefits

Local concrete repair

Fills suitable horizontal and vertical defects before the surrounding waterproofing treatment is applied.

Crystalline waterproofing properties

Combines a rigid cementitious repair with crystalline waterproofing properties within the selected repair and waterproofing system.

Material and application

Applications	For suitable horizontal and vertical defects before the separately specified waterproofing treatment.

Application notes

RM 211 is a rigid local repair, not an active-leak plug. Moving-joint treatment, overhead suitability and whole-structure waterproofing are outside this overview.

Movement, leakage, surrounding concrete and repair extent determine the repair detail. Leak treatment, repair, bonding/protection and waterproofing require a coordinated product sequence.

Mixing and placing methods depend on the supplied formulation and complete system instructions.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT RM 211 manufacturer technical data sheet, edition 4122. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

SELF-LEVELLING FLOOR UNDERLAYMENT

VELOSIT SL 501

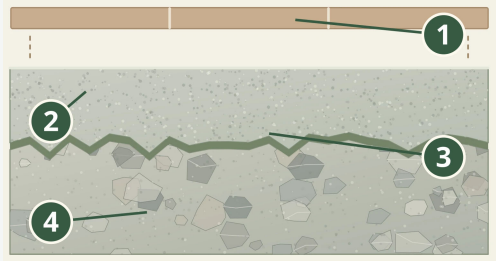
VELOSIT SL 501 is a cementitious self-levelling underlayment for suitable concrete floors. It provides a level base beneath a selected coating, tile or floor covering.

PRODUCT PROFILE

Role	Underlayment
Substrate	Assessed concrete
Next layer	Selected floor covering



Manufacturer packaging reference.



SL 501 underlayment beneath a selected floor covering.

1. Later floor covering, lifted for explanation
2. SL 501 underlayment
3. Separately specified primer interface
4. Concrete substrate



Concrete condition and floor levels are assessed first.

Uses and benefits

Concrete-floor levelling

Forms the levelling layer on suitable concrete slabs and floors, between the specified primer and the intended finish.

Base for floor finishes

Used beneath selected coatings, tiles and floor coverings, with primer compatibility and the receiving condition defined for the floor system.

Application notes

Substrate acceptance includes soundness, contamination, repairs, cracks, joints and measured moisture under the specified test protocol. Movement joints and perimeter isolation remain part of the floor design.

Readiness for covering depends on site conditions and the receiving finish; elapsed reference times and a dry-looking surface are insufficient.

Layer thickness is not specified in this overview; the primer and floor covering require their own specifications.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT SL 501 manufacturer technical data sheet, edition 1325. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

UNIVERSAL SELF-LEVELLING UNDERLAYMENT

VELOSIT SL 502

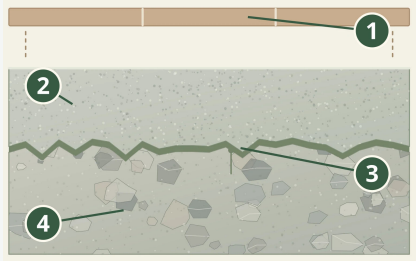
VELOSIT SL 502 is a cementitious self-levelling underlayment for suitable concrete floors. It forms a base beneath selected coatings and floor coverings.

PRODUCT PROFILE

Role	Underlayment
Substrate	Assessed concrete route
Next layer	Selected floor covering



Manufacturer packaging reference.



SL 502 underlayment in a concrete-floor build-up.

1. Later floor covering, lifted for explanation
2. SL 502 underlayment
3. Separately specified primer interface
4. Concrete substrate



Joints and perimeter isolation remain part of the floor design.

Uses and benefits

Concrete-floor levelling

Forms a levelling layer on prepared concrete beneath the selected coating or floor covering.

Part of a floor system

Used with the specified primer and finish, with floor levels, joints and moisture acceptance addressed in the floor design.

Application notes

Timber and terrazzo applications require separate complete specifications; concrete-floor instructions do not establish these specialist applications.

Manual and pumping instructions, including requirements for the supplied colour and formulation, are not interchangeable.

Primer condition, moisture results, site conditions and receiving-finish requirements determine readiness for covering and service.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT SL 502 manufacturer technical data sheet, edition 1325. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

MINERAL FLOOR OVERLAYMENT

VELOSIT SL 503

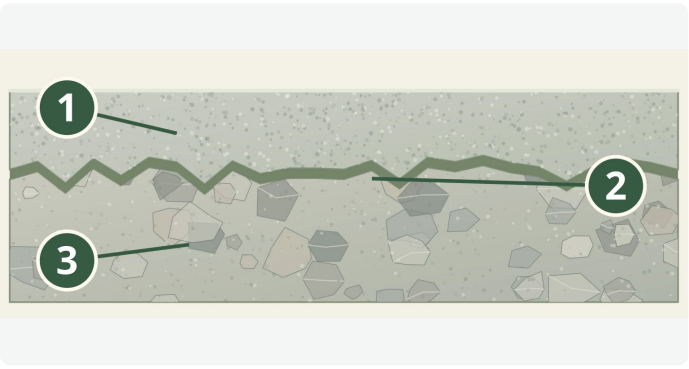
VELOSIT SL 503 is a cementitious self-levelling overlayment for concrete floors. It can form a mineral wear surface or serve beneath a selected coating or floor covering.

PRODUCT PROFILE

Role	Wear surface or underlayment
Substrate	Assessed concrete
Selection	Exposure and surface treatment



Manufacturer packaging reference.



SL 503 as a mineral wear surface on concrete.

1. SL 503 mineral wear surface
2. Separately specified primer interface
3. Concrete substrate



Exposed mineral wear surface; treatment selected separately.

Uses and benefits

Mineral wear surface

Can remain as the floor's mineral wear layer, with a separately selected sealer or hardener suited to the intended exposure.

Underlayment option

Can also serve beneath a selected coating or floor covering when a covered finish is required.

Application notes

Substrate condition, moisture assessment under the specified test protocol, repairs and primer selection form part of the floor specification. Movement joints and perimeter details continue through the system.

Sealers and hardeners are separate from the mortar mix. Traffic, loading and environmental protection require their own acceptance checks; surface appearance alone does not establish readiness for service.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT SL 503 manufacturer technical data sheet, edition 1325. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

GROUT FOR ENGINEERED BEARING GAPS

VELOSIT NG 512

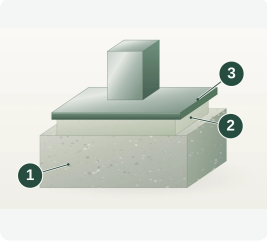
VELOSIT NG 512 is a cementitious non-shrink grout for engineered voids and baseplate interfaces. It fills designed gaps within a separately engineered connection.

PRODUCT PROFILE

Material	Cementitious grout
Role	Engineered gap filling
Design	Connection and loading specified



Manufacturer packaging reference.



NG 512 grout bed beneath an engineered baseplate.

1. Concrete support
2. Confined NG 512 grout bed
3. Steel baseplate



Grout within a designed concrete-to-concrete gap.

Uses and benefits

Baseplate and column-base grouting

For confined grout beds at designed baseplate and column-base interfaces.

Concrete-void filling

Fills designed concrete voids within the selected connection detail, with connection geometry, placement access and loading specified separately.

Material and application

Applications	For designed baseplate, column-base and concrete-void applications within the selected connection detail.

Application notes

Gap dimensions, grout travel, filling and air-release access, baseplate or anchor details and interface preparation are project-specific. Vibration is not a method of increasing flow.

NG 512 is for engineered gaps; self-levelling floor finishes and surface waterproofing are outside this role.

Grout strength alone does not establish anchor capacity, bearing design or readiness for loading. Consistency and interface requirements depend on the supplied-product instructions.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT NG 512 manufacturer technical data sheet, edition 4924. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

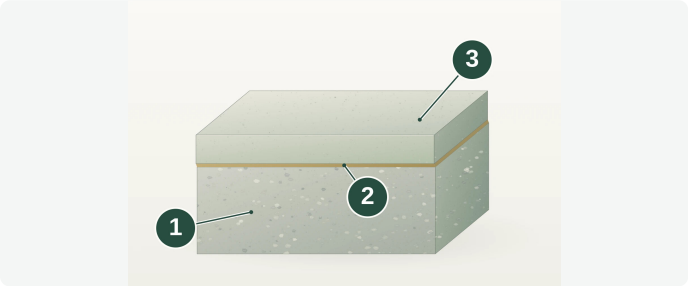
ABSORBENCY-REGULATING ACRYLIC PRIMER

VELOSIT PA 911

VELOSIT PA 911 is an acrylic primer for use beneath compatible mortars and adhesives. It regulates substrate absorption and binds residual surface dust after proper preparation.

PRODUCT PROFILE

Material	Acrylic primer
Role	Regulate substrate absorption
Receiving layer	Compatible mortar or adhesive



PA 911 primer beneath a compatible receiving layer.

1. Prepared absorbent substrate
2. Thin PA 911 primer interface
3. Compatible receiving mortar or adhesive



Primer selection begins with the substrate and receiving layer.

Uses and benefits

Absorbency regulation

Regulates the absorption of suitable prepared substrates beneath compatible mortars and adhesives.

Residual dust binding

Binds residual surface dust after proper preparation, forming the primer interface for the next compatible layer.

Material and application

Applications	For suitable absorptive substrates beneath the selected compatible mortar or adhesive.

Application notes

Substrate material, soundness, absorption, contamination and moisture affect primer selection and preparation. The receiving-layer condition follows the matched system instructions.

Exterior use is limited to suitable covered systems. PA 911 is not a standalone waterproofing, vapour-barrier or moisture-barrier layer.

Dilution and readiness depend on the substrate and receiving system; there is no universal dilution or waiting time.

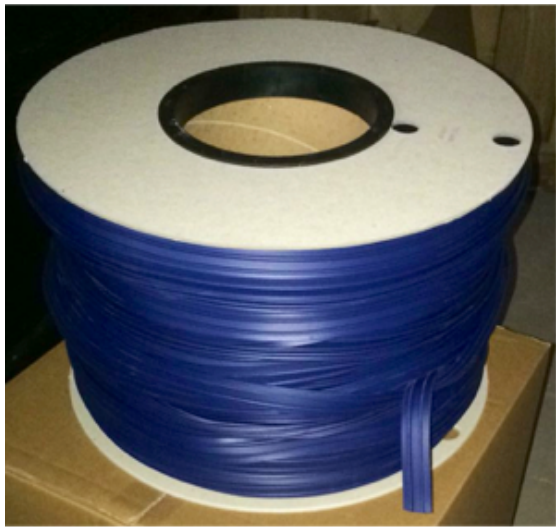
Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT PA 911 manufacturer technical data sheet, edition 3623. The supplied formulation, matching safety sheet and complete application instructions require product-specific verification. · Manufacturer technical sheet

CONFINED SWELLABLE JOINT GASKET

VELOSIT WS 805

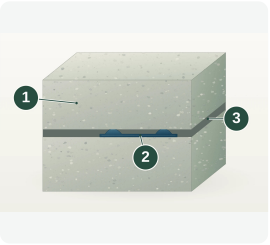
VELOSIT WS 805 is a shaped, swellable thermoplastic gasket for designed concrete segment and construction joints. Its contact profile works within the completed joint, supported and confined by the surrounding concrete.



Manufacturer product-roll reference.

PRODUCT AT A GLANCE

Material	Swellable thermoplastic gasket
Location	Inside the confined joint
Joint design	Supported profile and specified geometry



WS 805 gasket confined between mating concrete faces.

1. Mating precast concrete segments
2. WS 805 profiled gasket
3. Completed, confined joint



A dry profile within the specified precast-joint arrangement.

Uses and benefits

Concrete joint sealing

A gasket for designed concrete segment and construction joints, including the specified wall–slab and compatible pipe-joint arrangements.

Profiled contact within the joint

The shaped profile sits between mating concrete faces and forms part of the supported, confined joint assembly.

Material and application

Applications	Specified segment, wall–slab or compatible pipe-joint arrangements within a complete joint design.

Application notes

The gasket requires a complete joint design covering geometry, support, fixing and construction sequence. A profile that has already swollen is unsuitable for installation. Storage and installation conditions remain product-specific.

Joint movement, pipe compatibility and any potable-water approval require separate confirmation. No joint geometry or swelling time is specified in this overview.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT WS 805 manufacturer technical data sheet, edition 2522. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet

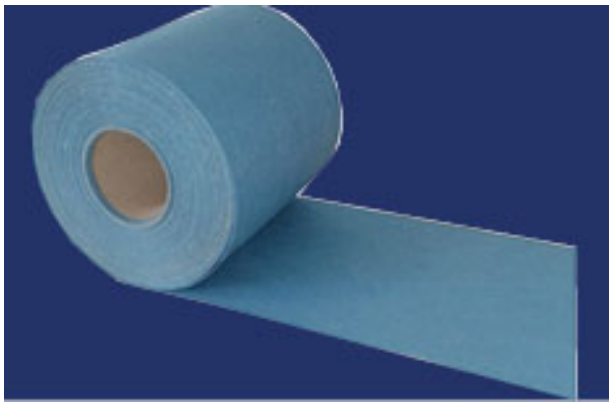
EMBEDDED SURFACE JOINT TAPE

VELOSIT DB 830

VELOSIT DB 830 is a surface-applied joint tape embedded between compatible bedding and overcoat layers. It forms part of positive-side waterproofing details at suitable joints and penetrations, with a maximum joint movement of 0.5 mm.

PRODUCT AT A GLANCE

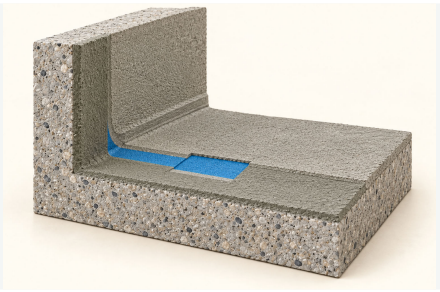
Role	Embedded surface tape
Water side	Positive-side only
Movement limit	Maximum 0.5 mm



Manufacturer product-roll reference.



DB 830 tape between embedding mortar and overcoat.



Embedded tape at a specified wall-slab junction.

Uses and benefits

Joints and penetrations

Connects specified waterproofing details at suitable joints and penetrations within a compatible surface-waterproofing system.

Embedded within the coating build-up

The tape sits between the bedding and overcoat, forming part of the material-contact detail on the substrate.

Application notes

For positive-side water pressure only. Material elongation does not increase the maximum 0.5 mm joint-movement limit.

Joint geometry, terminations and compatibility with the substrate, pipes and adjacent materials remain part of the complete project-specific detail.

Product overview. The applicable technical and safety data sheets govern application and handling.

Reference: VELOSIT DB 830 manufacturer technical data sheet, edition 0624. The supplied formulation and matching safety data sheet are not yet verified; this overview contains no application method. · Manufacturer technical sheet