

“STANDARD SOLUTIONS for everyday requirements, SPECIFIC SOLUTIONS for special requirements”

This is our philosophy here at Opera, because we want every one of our products to deliver top results.

Now and in the future.

Our strengths:

- Easy to use: our products are designed to meet all building industry needs quickly and effortlessly.
- A precise goal. Opera products are focused on a clear mission: to find the right balance between the ideas of designers and the needs of our users.
- Constant technical assistance: thanks to the professionalism and availability of our engineering department, we can guarantee our customers prompt and precise assistance both before and after the sale.
- Certification: the entire range of Opera products is certified as EU-compliant.
- Best price/quality ratio: technologically advanced materials at the right price, so that our solutions are always economically attractive, and that means both in useful life and costs terms.
- Ongoing research and development: over 30 years of non-stop business in the specialist building industry means we can guarantee our customers constantly evolving techniques and a company that always keeps pace with the market.



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Cemenrapid

Pre-mixed, fast-setting, controlled shrinkage mortar for all-purpose fixing.

Form:	grey powder
Packs:	25 - 5 kg
Pallet:	1500 - 600 kg
Quantities required:	1.8 kg/l (where 'litres' refers to the volume of the space to fill)

Main features

- One-part
- No shrinkage
- Fast-setting
- High workability
- Frostproof

Storage

Cemenrapid can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Cemenrapid undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Clean and dampen the surfaces to treat;
- measure out the amount of water required, making sure you do not exceed the amounts specified on the pack;
- do not use to restore decayed concrete constructions;
- do not leave the bags exposed to sunlight before use.

Fields of application

Cemenrapid is suitable for the following:

- fast anchorage to floors or walls in building work;
- fast fixing for secondary frames, electrical casings,

door/window units, gratings, fences, safes, clamps, manholes covers, pipelines, sewerage, etc.

Preparation: the base must be sound, compact, have no parts coming away, and be free of dust, grease, oil, paint, and wax. Carefully wet the area to be treated and, using water, cool any surfaces that have heated up through exposure to sunlight.

Application: mix **Cemenrapid** with clean water, to obtain a smooth, lump-free paste. Do not add other aggregates or hydraulic binders to **Cemenrapid**. If the mixture is already hardening, do not attempt to restore workability by adding water. Mix small amounts of the product, which must be used very quickly as it begins to set just two or three minute after mixing. During winter, we recommend you use water with a temperature of +20°C. In warmer periods and hotter temperatures, use very cold water for mixing. These techniques will ensure the setting time remains within prescribed standards. The mixture should be applied with a standard trowel. Elements of a considerable weight, such as secondary frames, gates, etc., must be held in place for a few hours.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	20-21% (weight) - i.e. 5 l per 25 kg bag
Specific weight of mixture:	2.10 g/cm³
Mixture pH:	approx. 11
Setting time:	2 - 4 minutes at +20°C
Pot life:	approx. 2 minutes at +20°C
Application temperature:	from +5°C to +35°C
Waiting time between applying one coat and the next:	approx. 5 minutes at +20°C
Ready for use:	3-4 hours

FINAL PERFORMANCE SPECIFICATIONS

Compression resistance after 20 minutes:	6.60 N/mm²
Compression resistance after 3 hours:	10.00 N/mm²
Compression resistance after 7 days:	17.30 N/mm²
Compression resistance after 28 days:	21.80 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	25239090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Legacem

Fibre-reinforced smoothing adhesive for gluing and then smoothing cellular cement blocks

Form: grey powder
Packs: 25 kg
Pallet: 1500 kg
Quantities required: 1.4 kg/m² per mm thick for smoothing
 5-7 kg/m² for gluing

Main features

- One-part
- Thixotropic
- Sulphate-resistant
- High workability

Storage

Legacem can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Legacem undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Legacem is suitable for the following:

- gluing cellular cement blocks;
- smoothing cellular cement blocks;

Preparation: before using the product as a smoothing coat, dampen the wall to treat.

Application: mix **Legacem** with clean water until a smooth, lump-free paste is obtained. Mix with a mechanical mixer at a low speed to prevent air getting trapped in the mixture. Do not add other aggregates or hydraulic binders to **Legacem** and if the mixture is already hardening, do not attempt to restore workability by adding water.

The product should be spread like an adhesive, with an 8 mm toothed trowel held at a 45° angle. If using as smoothing coat, spread with a smooth-edge trowel in a layer with a max. thickness of 2-3 mm, apply fibreglass mesh, and then finish off with a second smoothing coat. **Legacem** must be protected from frost for at least 24 hours after application.

Technical and application specifications

Hazard classification as per Directive 99/45/EC	irritant
Mixing water:	23-25% (weight) - i.e. 6 l per 25 kg bag)
Specific weight of mixture:	1.65 g/cm³
Mixture pH:	approx. 12
Application temperature:	from +5°C to +30°C
Thickness applicable:	from 1 to 15 mm
Initial setting:	after 24 hours
Final setting:	after 14 days

FINAL PERFORMANCE SPECIFICATIONS

Bending resistance after 28 days:	3.6 N/mm²
Compression resistance after 28 days:	8.0 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Resistance to damp, ageing, solvents and oils:	excellent
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Do not apply in temperatures below +5°C;
- after application as a smoothing coat, ensure the area treated sets properly by making sure the water does not evaporate too fast;
- do not stack too many blocks before the adhesive underneath has enough mechanical resistance to bear the load;
- do not apply **Legacem** in thicknesses of less than 15 mm per coat.



Isoterm

Powder adhesive for gluing and smoothing insulating panels

Form:	grey powder
Packs:	25 kg
Pallet:	1500 kg
Quantities required:	1.2 kg/m ² per mm thick for smoothing 2-4 kg/m ² for gluing

Main features

- One-part
- Highly flexible
- Excellent workability
- Highly thixotropic

Storage

Isoterm can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Isoterm undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not glue insulation panels to walls subject to strong movements;
- do not glue panels to bases in poor condition or insubstantial plaster;
- do not use in temperatures below +5°C or above +35°C;
- do not apply in particularly sunny, windy or rainy conditions;
- do not apply to frozen or thawing bases or those at risk of freezing during the 24 hours following application;
- do not apply to metallic, wooden or asbestos cement surfaces or to bases subject to strong movements;
- do not apply to damp surface and avoid contact with water in the hours following laying.

Fields of application

Isoterm is suitable for the following:

- gluing and smoothing insulating panels made of polystyrene or polyurethane, on surfaces indoors and out, in all existing or new constructions;
- insulating loft spaces;
- external insulating on curtain walls;
- internal insulating in foundation walls;

Preparation: the base must be even, free of dust and water-soluble parts; it must also be sound, consistent, perfectly set, not subject to movements, and dry. Gypsum bases must be treated beforehand with **Primer GS**. We recommend you level out obviously uneven surfaces with **Raso OP 156**.

Application: mix **Isoterm** with clean water, using a mixer at a low speed, until you have a smooth, lump-free paste. Leave the mix to rest for 5 minutes, and then mix again for a short while before application. Do not add other aggregates or hydraulic binders to **Isoterm**. The mixture remains workable for at least 3 hours. Apply **Isoterm** to the insulating panels in seams or spots using a steel toothed trowel and position the panels with staggered joints, smoothing them off and carefully hammering them in. When required, proceed by fixing mechanically with appropriate plastic screw anchors. 3 days later, make the smoothing layer by applying a first coat of **Isoterm** mixed with water and then immerse the **Rete in Fibre di Vetro** (fibreglass mesh) in the layer; then apply a second coat of **Isoterm** mixed with water. After at least 7 days, apply the final cladding material.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	21-23% (weight) - i.e. 5.5 l per 25 kg bag)
Specific weight of mixture:	1.45 g/cm³
Mixture pH:	over 12
Application temperature:	from +5°C to +35°C
Open time:	30 minutes
Handling time:	40 minutes
Waiting time before applying final cladding	7 days
FINAL PERFORMANCE SPECIFICATIONS	
Adhesion after 24 hours (in accordance with EN 12004):	0.8 N/mm²
Adhesion after 28 days (in accordance with EN 12004):	2.0 N/mm²
Compression resistance after 28 days:	6.90 N/mm²
Bending resistance after 28 days:	3.20 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Resigum

Adhesive paste for gluing and smoothing insulating panels

Form: White paste
Packs: 25 kg
Pallet: 675 kg
Quantities required: 1.5 kg/m² per mm thick for smoothing
 1-2 kg/m² for gluing

Main features

- Highly flexible
- Excellent workability
- Highly thixotropic
- For mixing with cement

Storage

Resigum can be kept for up to 12 months if stored in a dry place and in its original packaging. Do not expose to frost.

Quality and Environmental Standards

Resigum undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not glue insulation panels to walls subject to strong movements;
- do not glue panels to bases in poor condition or insubstantial plaster;
- do not use in temperatures below +5°C or above +35°C;
- do not apply in particularly sunny, windy or rainy conditions;
- do not apply to frozen or thawing bases or those at risk of freezing during the 24 hours following application;
- do not apply to metallic, wooden or asbestos cement surfaces or to bases subject to strong movements.
- do not apply to damp surface and avoid contact with water in the hours following laying.

Fields of application

Resigum is suitable for the following:

- gluing and smoothing insulating panels made of polystyrene or polyurethane, on surfaces indoors and out, in all existing or new constructions;
- insulating loft spaces;
- external insulating in curtain walls;
- internal insulating in foundation walls.

Preparation: the base must be even, free of dust and water-soluble parts; it must also be sound, consistent, perfectly set, not subject to movements, and dry. Gypsum bases must be treated beforehand with **Primer GS**. We recommend you level out obviously uneven surfaces with **Raso OP 156**.

Application: mix **Resigum** using a mixer at a low speed, adding cement (type: CEMII/A-LL 42.5 R) and applying the following ratio: 2:1 (12.5 kg of cement for 25 kg of **Resigum**), until you have a smooth, lump-free paste. Do not add aggregates. Leave the mix to rest for 5 minutes, and then mix again for a short while before application; the mixture remains workable for at least 3 hours. Apply **Resigum** to the insulating panels in seams or spots using a steel toothed trowel and position the panels with staggered joints, smoothing them off and carefully hammering them in. When required, proceed by fixing mechanically with appropriate plastic screw anchors. 3 days later, make the smoothing layer by applying a first coat of **Resigum** and immersing the **Rete in Fibre di Vetro** (fibreglass mesh) in the layer; then apply a second coat of **Resigum** mixed with water. After at least 7 days, apply the coloured cladding material.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Mixing ratio:	Resigum: CEM II = 2:1
Specific weight of mixture:	2.20 g/cm³
Mixture pH:	approx. 11
Application temperature:	from +5°C to +35° C
Waiting time before applying final cladding	7 days
FINAL PERFORMANCE SPECIFICATIONS	
Adhesion after 24 hours (in accordance with EN 12004):	0.8 N/mm²
Adhesion after 28 days (in accordance with EN 12004):	2.0 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Resistance to damp and ageing:	good
Flexibility:	good
Harmonised customs code:	35069100

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Vinplast

Non-toxic two-part glaze for metal and concrete containers intended for food use

Form:	Beige or red paste (Vinplast). Pale yellow liquid (curing agent)
Packs:	5 kg + 1.5 kg
Quantities required:	1.8-2 kg/m ² per 2.5 mm of thickness

Main features

- Two-part
- Non-toxic
- Glazing
- High abrasion resistance
- Solvent-free
- Reduces the formation of dirt and scale

Storage

Vinplast can be kept for up to 12 months if stored in a dry place and in its original packaging. Protect against temperatures below 10°C.

Quality and Environmental Standards

Vinplast undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Always follow the mixing ratios recommended for the two parts;
- mix the two parts carefully until an evenly coloured paste is obtained;
- do not use on surfaces that are damp or subject to rising damp;
- working in high temperatures or on surfaces exposed to direct sunlight reduces the product's setting time considerably;
- bear in mind that temperatures below +12°C can also lengthen the setting time considerably and workability may be reduced due to the hardness of the mixture;
- in temperatures below +5°C, the setting reaction does not occur;
- always apply **Epoxidro** strengthening primer beforehand.

Fields of application

Vinplast is suitable for the following:

- covering internal surfaces of cisterns, tanks, vats, and bins, made of either metal or concrete and designed to hold wine, wine-making by-products, or other liquid or solid substances intended for human consumption;
- coating parts which come into contact with foodstuffs in machinery such as hoppers, autoclaves, kneading machines.

Preparation: if applying **Vinplast** to concrete, the base must be flat, sound, have no parts coming away and no dust, grease, form release oils, paint, wax, rust or efflorescence on it. Repair any holes or uneven sections with **Fibrocem**. With concrete bases, remove any cast joint burrs and wait at least 30 days for setting. On iron, steel or metal bases in general, remove all traces of rust, old paint, grease etc. by brushing or sanding.

Application: to obtain a smooth mixture, pour the curing agent into the **Vinplast** container and mix carefully with a helical blade stirrer. **Vinplast** can be applied with an airless spray gun, brush or roller. To obtain a more fluid mix, you can add denatured ethyl alcohol (max. 1 kg per 10 kg). This decreases the gloss and chemical resistance. During application and for the following two days, the temperature of the base must be between +10°C and +40°C. The relative humidity must not exceed 85%. During application, the base must be perfectly dry and there should be no condensation occurring.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant (Vinplast) corrosive (curing agent)
Specific weight :	1.60 g/cm³ (Vinplast) 1.03 g/cm³ (curing agent)
Application temperature:	from +5°C to +40°C
Average waiting time before applying 2nd coat:	approx. 12/24 hours
Average thickness per coat:	1.5/2 mm
Ready for use:	4/6 days
Appearance of the film:	glossy
Porosity (ElektroPhysic PoroTest at 2000 Volts):	no pores
Recommended thickness:	2.5 - 3 mm (in special cases: up to 7.5 mm)
Touch dry:	12 hours
Dry throughout:	24 hours
FINAL PERFORMANCE SPECIFICATIONS	
Waterproof degree:	excellent
Room/ambient temperature:	from -20°C to +80°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.





Primer DM 620

Impregnating primer to prevent rising damp and salt formation

Form: Fluid, transparent liquid
Packs: 5 l
Pallet: 450 l
Quantities required: 0.5 l/m²

Main features

- Ready for use
- High penetration capacity
- Salt protection treatment
- High vapour permeability

Storage

Primer DM 620 can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Primer DM 620 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Apply evenly and in copious amounts;
- apply to clean bases which have had all plaster/render removed;
- do not apply to gypsum bases;
- do not use as a waterproofing coat on surfaces exposed to pouring water.

Fields of application

Primer DM 620 is suitable for the following:

- salt protection treatment before applying **Silinton DM 600** dehumidifying plaster/render;
- indoors and outdoors;
- for masonry made of old or new bricks or stone and tuff mixes;
- for treating masonry made of cellular concrete or concrete.

Preparation: before reconditioning with **Primer DM 620**, remove the damaged plaster/render. In the event of rising damp, it is advisable to remove the plaster/render up to a height of 50 cm above the level reached by the damp. Remove the plaster/render from the surfaces and proceed by scrubbing vigorously and then washing with a high-pressure water jet, to remove dust, dirt, efflorescence and any crumbling mortar between the bricks.

Application: soak the masonry to desalt with plenty of clean water. Apply the **Primer DM 620** evenly (without diluting it), using a brush or roller; the treated surfaces must then be covered with **Silinton DM 600** within a maximum of 5 minutes.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Specific gravity:	0.8 g/cm³
Application temperature:	from +5°C to +30°C
Fire reaction:	class M0 (incombustible)
Harmonised customs code:	39039000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Silinton DM 600 Deumidificante

Dehumidifying and microporous plaster/render

Form:	Light grey powder
Packs:	25 kg
Pallet:	1400 kg
Quantities required:	15 kg/m ² per cm of thickness

Main features

- One-part
- Microporous
- Highly workable
- Highly dehumidifying

Storage

Silinton DM 600 can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Silinton DM 600 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Apply in layers absolutely no thinner than 2 cm;
- using a standard barrel cement mixer (25/30 rpm), mix for no less than 12-15 minutes and wait for the colour of the mixture to change. Mixing for less time will not allow the mixture to incorporate enough air and will reduce the product's efficiency;
- do not apply in temperatures below +5°C or above +30°C;
- if the mixed mortar is left to rest for more than 20 minutes, remix for 3-4 minutes before use;
- after application, ensure the area reconditioned sets properly by making sure the water does not evaporate from the mix too fast;
- on very absorbent and unstable bases, apply a (not completely covering) rough coat and do not soak the base to saturation before application.

Fields of application

Silinton DM 600 is suitable for the following:

- internal surfaces of foundation walls not affected by water seepage caused by back-pressure; in the event of back-pressure, treat with Osmocem osmotic cement beforehand;
- aboveground walls affected by capillary humidity caused by meteoric water;
- dampness caused by condensation due to poor ventilation.

Preparation: before reconditioning with **Silinton DM 600**, remove the damaged plaster/render. In the event of rising damp, it is advisable to remove the plaster/render up to a height of 50 cm above the level reached by the damp. Remove the plaster/render from the surfaces and proceed by scrubbing vigorously and then washing with a high-pressure water jet, to remove dust, dirt, efflorescence and any crumbling mortar between the bricks. At this point, apply plenty of **Primer DM 620** evenly to the dry (previously washed and brushed) wall with a brush or roller. Cover the treated surface with **Silinton DM 600** within a maximum of 5 minutes.

Application: mix **Silinton DM 600** in a cement mixer with clean water for at least 12/15 minutes until a smooth, lump-free paste is obtained. Do not add other aggregates or hydraulic binders to **Silinton DM 600**. To mix the plaster/render better, it is advisable to pour approx. 2/3 of the water envisaged into the cement mixer, and then pour in the **Silinton DM 600** and the remaining water. You will note that during the initial mixing stages, the mixture has an 'earth-moist' consistency but then it gradually gets more fluid and softer without adding any more water.

Spread the plaster/render over the masonry, applying it in two coats (wet on wet). In order to recondition the masonry, the plaster/render coat made with **Silinton DM 600** must be no less than 2 cm thick. The plaster/render obtained this way must be smoothed off with **Raso OP 106** or **Raso OP 30F** and painted with highly breathable paints.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Pot life:	approx. 60 minutes
Application temperature:	from +5°C to +30° C
Mixing water ratio:	17-18% (approx 4.5 l per 25 kg bag)
Total minimum thickness:	2 cm
Fire reaction:	class M0 (incombustible)
Water vapour diffusion resistance factor:	μ 9 circa
Thermal conductivity:	λ = 0,710 W/m.K
FINAL PERFORMANCE SPECIFICATIONS	
Compression resistance after 28 days:	> 3,5 N/mm²
Bending resistance after 28 days:	> 1,5 N/mm²
Waiting time before smoothing:	5-7 days
Room/ambient temperature:	from -30°C to +90°C
Waiting time before painting over:	20days
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Ferrocem

Inhibiting grout for rebars

Form:	green powder
Packs:	5 kg
Pallet:	600 kg
Quantities required:	160 g/m with 10 mm Ø bars and thickness of approx. 1.5 mm

Main features

- One-part
- Highly plastic
- Corrosion-inhibiting
- Prevents carbonation

Storage

Ferrocem can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Ferrocem undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not use as an anti-corrosion top-coat;
- do not apply in thicknesses of over 2 mm;
- do not apply in temperatures below +5°C or above +35°C.
- the second coat must be applied within 24 hours.

Fields of application

Ferrocem is suitable for the following:

- protecting rebars against oxidation and corrosion;
- for increasing adhesion between the reconditioning mortar and the old concrete.

Preparation: remove any fragments that are coming away or are not firmly in place. Remove the areas with high concentrations of acid, as shown by measuring the pH with phenolphthalein. Carefully clean the surface to treat and brush or sand the rebars to remove all trace of rust and anything not in good condition. Then wash with clean water.

Application: mix **Ferrocem** with water until a smooth, lump-free paste is obtained. Do not add other aggregates or hydraulic binders to **Ferrocem**.

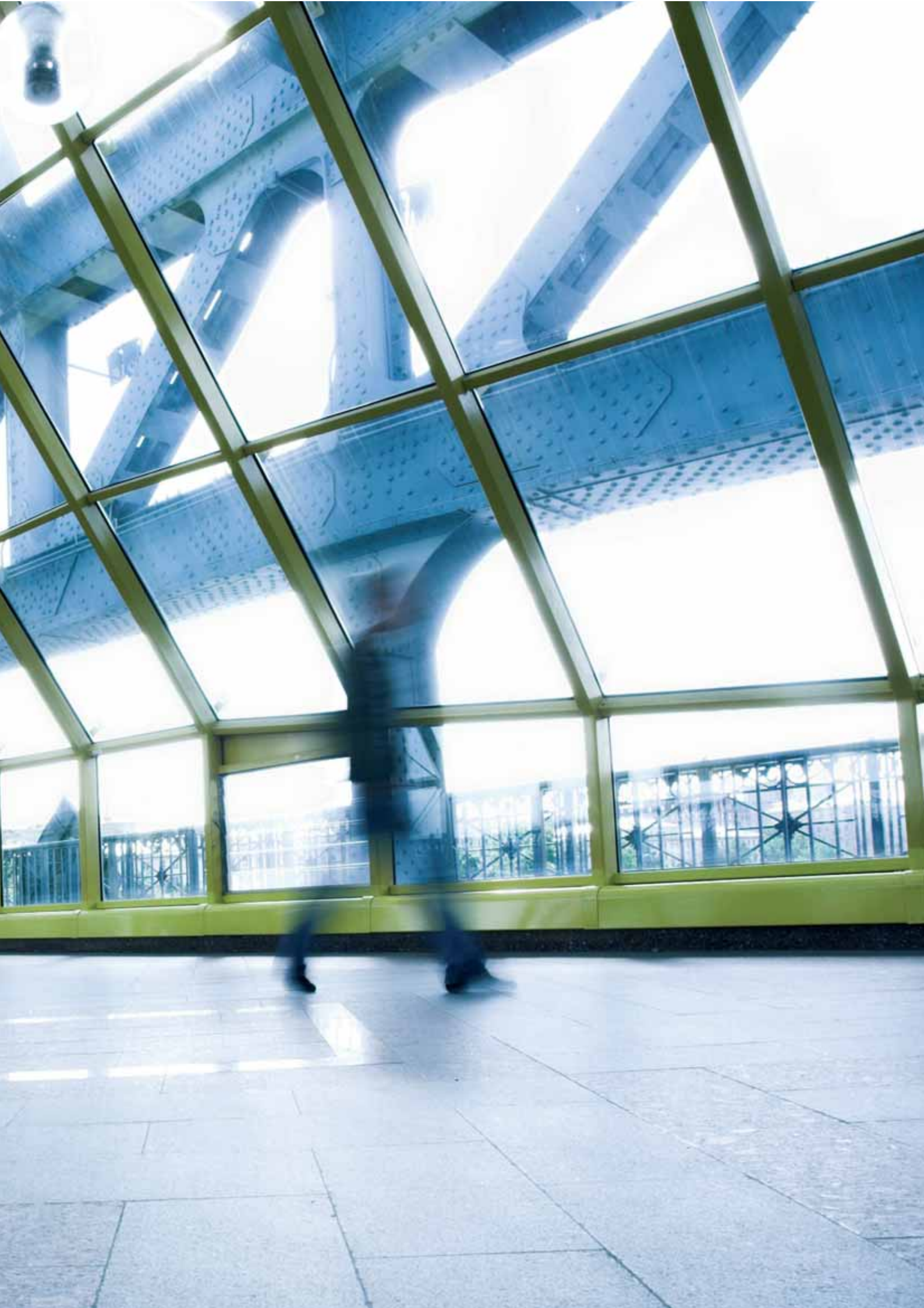
Brush on to the rebars in a layer with maximum thickness of 1 mm. After 1 or 2 hours, apply a second coat (also max. 1 mm thick) and spread the treatment over the cementitious parts surrounding the rebar. Reconstruct the layer covering the rebar with reconditioning mortar (**Fibrocem Tissotropico** or **Fibrocem Rapido**) within the next 2 hours.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Mixing water:	20-21% (approx. 1 l per 5 kg bag)
Specific weight of mixture:	1.05 g/cm³
Mixture pH:	over 11
Application temperature:	from +5°C to +35° C
Pot life:	60 minutes
FINAL PERFORMANCE SPECIFICATIONS	
Waiting time before applying reconditioning mortar:	4/5 hours
Adhesion to concrete:	>2.5 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.







Fibrocem Tissotropico

Standard-setting thixotropic mortar for reconditioning concrete

Form: grey powder
Packs: 25 kg
Pallet: 1500 kg
Quantities required: 19 kg/m² per cm of thickness

Main features

- One-part
- Highly thixotropic
- High workability
- High mechanical resistance

Storage

Fibrocem Tissotropico can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Fibrocem Tissotropico undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Do not apply in temperatures below +5°C or above +35°C;
- do not apply to concrete surfaces that are particularly smooth; roughen up the surface prior to use;
- after application, ensure the area reconditioned sets properly by making sure the water does not evaporate too fast;
- do not apply to frozen bases or those at risk of freezing during the 24 hours following application;
- do not pour on.

Fields of application

Fibrocem Tissotropico is suitable for the following:

- reconditioning decayed concrete;
- rebuilding the layer around the rebars in reinforced concrete which has decayed due to rebar oxidation

(treat the rebars beforehand with **Ferrocem**);

- filling in holes in screeds, industrial floors, etc.;
- reconditioning pillars, beams, treads, risers, edges, etc.

Preparation: carefully clean the surface to recondition, removing any dust, grease, or paint and remove all the parts not attached firmly in place until the base is a completely solid layer. Clean the rebars by sanding or careful brushing, removing all trace of rust and fragments that are coming away. Roughen up the base considerably and soak with plenty of water, and then wait for the excess water to evaporate.

Application: mix **Fibrocem Tissotropico** with clean water until a smooth, lump-free paste is obtained. Use a mechanical mixer at a low speed to prevent air getting trapped in the mixture. Leave the mix to rest for a few minutes, and then mix again for a short while. Do not add other aggregates or hydraulic binders and if the mixture is already hardening, do not attempt to restore workability by adding water.

The mixture should be applied with a smooth trowel. This product can be float-finished. If you have to apply several coats, make sure the previous coat is completely set before applying the next. Treat the rebars with rust-inhibiting **Ferrocem** before reconstructing the decayed part or element with **Fibrocem Tissotropico**.

Fibrocem Tissotropico must be protected from frost for at least 12/24 hours after application. Any smoothing off required can be done with **Raso OP 156**.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Specific weight of mixture:	2 g/cm³
Pot life:	approx. 60 minutes
Application temperature:	from +5°C to +35°C
Mixing water ratio:	18% (approx 4.5 l per 25 kg bag)
Mixture pH:	over 12
Minimum coat thickness:	1 cm
Maximum coat thickness:	3 cm

FINAL PERFORMANCE SPECIFICATIONS EN 196/1

Compression resistance after 28 days:	> 40 N/mm²
Bending resistance after 28 days:	> 9 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Fibrocem Rapido

Fast-setting thixotropic mortar for reconditioning concrete

Form:	grey powder
Packs:	25 kg
Pallet:	1500 kg
Quantities required:	19 kg/m ² per cm of thickness

Main features

- One-part
- High adhesion to concrete
- Highly thixotropic
- High mechanical resistance
- Fast-setting
- Controlled shrinkage

Storage

Fibrocem Rapido can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Fibrocem Rapido undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not apply in temperatures below +5°C or above +35°C;
- do not apply to concrete surfaces that are particularly smooth; roughen up the surface prior to use;
- after application, ensure the area reconditioned sets properly by making sure the water does not evaporate too fast;
- do not apply to frozen bases or those at risk of freezing during the 24 hours following application;
- do not use with plastering machines.

Fields of application

Fibrocem Rapido is suitable for the following:

- quickly reconditioning decayed concrete;
- quickly rebuilding the layer around the rebars in reinforced concrete which has decayed due to rebar oxidation (treat the rebars beforehand with

Ferrocem);

- quickly filling in holes in screeds, industrial floors, etc.;
- promptly reconditioning pillars, beams, treads, risers, edges, etc.

Preparation: carefully clean the surface to recondition, removing any dust, grease, or paint and remove all the parts not attached firmly in place until the base is a completely solid layer. Clean the rebars by sanding or careful brushing, removing all trace of rust and fragments that are coming away. Roughen up the base considerably and soak with plenty of water, and then wait for the excess water to evaporate.

Application: mix **Fibrocem Rapido** with clean water until a smooth, lump-free paste is obtained. Mix with a mechanical mixer at a low speed to prevent air getting trapped in the mixture. Leave the mix to rest for a few minutes, and then mix again for a short while. Do not add other aggregates or hydraulic binders. If the mixture is already hardening, do not attempt to restore workability by adding water.

The mixture should be applied with a smooth trowel. This product can be float-finished. If you have to apply several coats, make sure the previous coat is completely set before applying the next. Treat the rebars with rust-inhibiting **Ferrocem** before reconstructing the decayed part or element with **Fibrocem Rapido**. **Fibrocem Rapido** must be protected from frost for at least 6/12 hours after application. Any smoothing off required can be done with **Raso OP 156**.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Specific weight of mixture:	2 g/cm³
Pot life:	approx. 5 minutes
Complete setting time:	approx. 20 minutes
Application temperature:	from +5°C to +35°C
Mixing water ratio:	16-17% (weight) - i.e. approx 4 l per 25 kg bag
Mixture pH:	over 12
Minimum coat thickness:	1 cm
Maximum coat thickness:	2 cm

FINAL PERFORMANCE SPECIFICATIONS EN 196/1

Compression resistance after 3 hours:	> 10.5 N/mm²
Compression resistance after 7 days:	> 25.4 N/mm²
Compression resistance after 28 days:	> 29.9 N/mm²
Bending resistance after 3 hours:	> 2.4 N/mm²
Bending resistance after 7 days:	> 4.7 N/mm²
Bending resistance after 28 days:	> 5.5 N/mm²
Adhesion to concrete after 7 days:	> 1 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Fibrocem Colabile

Pourable fibre-reinforced mortar for reconditioning concrete

Form: grey powder
Packs: 25 kg
Pallet: 1500 kg
Quantities required: 20 kg/m² per cm of thickness

Main features

- One-part
- Highly workable
- High mechanical resistance
- High adhesion to concrete

Storage

Fibrocem Colabile can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Fibrocem Colabile undergoes constant, careful testing at our laboratories, in compliance with the legislation in force (UNI EN ISO 9001/2000).

Warning

- Do not apply in temperatures below +5°C;
- do not apply to concrete surfaces that are particularly smooth; roughen up the surface prior to use;
- do not use **Fibrocem Colabile** for spray-on applications;
- after application, ensure the area reconditioned sets properly by making sure the water does not evaporate too fast.

Fields of application

Fibrocem Colabile is suitable for the following:

- reconditioning concrete beams;
- rebuilding the layer around the rebars in reinforced concrete which has decayed due to rebar oxidation

(treat the rebars beforehand with **Ferrocem**);

- filling rigid joints between concrete elements;
- reconstructing reinforced cement pillars and beams.

Preparation: carefully clean the surface to recondition, removing any dust, grease, or paint and remove all the parts not attached firmly in place until the base is a completely solid layer. Clean the rebars by sanding or careful brushing, removing all trace of rust and fragments that are coming away. Roughen up the base considerably and soak with plenty of water, and then wait for the excess water to evaporate.

Application: mix **Fibrocem Colabile** with clean water until a smooth, lump-free paste is obtained. Mix with a mechanical mixer at a low speed to prevent air getting trapped in the mixture. Leave the mix to rest for a few minutes, and then mix again for a short while. Do not add other aggregates or hydraulic binders and if the mixture is already hardening, do not attempt to restore workability by adding water.

The mixture should be applied with a smooth trowel. If you have to apply several coats, make sure the previous coat is completely set before applying the next. Treat the rebars with rust-inhibiting **Ferrocem** before reconstructing the decayed part or element with **Fibrocem Colabile**. **Fibrocem Colabile** must be protected from frost for at least 12/24 hours after application. Any smoothing off required can be done with **Raso OP 156**.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Specific weight of mixture:	2.20 g/cm³
Pot life: approx.	60 minutes
Application temperature:	from +5°C to +35°C
Mixing water ratio:	13-14% (weight - i.e. approx 3.2 l per 25 kg bag)
Mixture pH:	over 12
Maximum coat thickness:	2 cm
Waiting time before removing formworks:	approx. 72 hours
FINAL PERFORMANCE SPECIFICATIONS EN 196/1	
Compression resistance after 28 days:	> 60 N/mm²
Bending resistance after 28 days:	> 8 N/mm²
Static modulus of elasticity:	26000 MPa
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



Latex UN

Elasticising latex for cement mortars

Form:	white liquid
Packs:	25 kg, 10 kg, 5 kg, 1 kg
Pallet:	500 kg, 600 kg, 450 kg, 320 kg
Quantities required:	see chart

Main features

- Improved mechanical and chemical resistance
- Increased water repellence
- Increased flexibility

Storage

Latex UN can be kept for up to 12 months if stored in its original packaging in temperatures no lower than +5°. Keep away from direct sunlight.

Quality and Environmental Standards

Latex UN undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Warning

- Do not use as an adhesion promoter without mixing with cement or, if required, **Basecem**;
- when mixing, do not use more than specified - always follow the recommended amounts;
- do not apply in temperatures below +5°C or above +35°C;
- do not use a high speed when mixing the blend + **Latex UN** as too much air may be incorporated into the mixture;
- after application, especially on hot or windy days, provide suitable protection for the mortar enhanced with **Latex UN** to ensure the water does not evaporate too quickly.

Fields of application

Latex UN is suitable for the following:

- improving the mechanical performance of concretes, screeds, plasters/renders, smoothing coats and cement mortars in general;
- preparing anchor grouts for adhesive screeds and cast joints;
- as an adhesion-promoting coat for smoothing coats

and self-levellers on difficult bases;

- as an admixture for mortars when mixing high-resistance screeds;
- ensuring greater durability to cement mortars exposed to bad weather and subject to considerable abrasion;
- adjusting water retention in cement mortars.

Preparation: the base must be sound, have no parts coming away, and be completely free of dust, oil and paint. Before application, soak the base with plenty of water and then remove the excess water.

Application: dilute **Latex UN** with water in the mixing container, following the amounts recommended for the specific mortar you intend to mix. Then pour in the cement and aggregates slowly and constantly, which - if possible- should already be mixed together; this prevents lumps forming. Blend with a mixer for as long as required (but no more than 3 minutes), working at low speed to prevent too much air being incorporated into the mixture. Make sure that any mortar mixed with **Latex UN** sets properly, by soaking it during and after hardening. This will prevent splitting and abnormal shrinkage.

Quantities required				
	Anchor grout	Smoothing coats (max thickness: 10 mm)	Screeds (thickness: under 35 mm)	Screeds (thickness: over 35 mm)
Latex UN: water mixing ratio	1:1	1:1	1:3	1:4
Cement: aggregates ratio (in weight)	Portland cement or Basecem:1:3	1:3	350-390 kg/m ³ of aggregates	300 kg/m ³ of aggregates
Quantities recommended for Latex UN	0.200-0.300 kg/m ²	0.200-0.300 kg/m ²	0.050 kg/m ² per mm of thickness	0.030 kg/m ² per mm of thickness

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Mixture pH:	approx. 10
Application temperature:	from +5°C to +35°C
Flammability:	no

FINAL PERFORMANCE SPECIFICATIONS

Resistance to damp and ageing:	excellent
Resistance to acids and alkalis:	fair
Harmonised customs code:	40021100

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.



AER L2

Aerating admixture for cement mortars

AER L2

Technical mortars

Form:	dark liquid
Packs:	5 kg tanks 10 x 1 kg tanks
Pallet:	450 - 240 kg
Quantities required:	0.1 - 0.2% of the cement's weight

Main features

- Increased frost/thaw cycle resistance
- Much higher mortar plasticity

Storage

AER L2 can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

AER L2 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force -UNI EN ISO 9001/2000.

Fields of application

AER L2 is suitable for the following:

- improving plasticity of cement mortars;
- improving plasticity of cement mortars;
- improving even ness of cement mortar mixtures.

Application: **AER L2** is a ready-for-use product, and must be mixed with the mortar mixing water to stimulate the generation and incorporation of micro bubbles.

The amount of **AER L2** to use per 100 kg of cement varies depending on the mortar type. There are many factors that can influence the amount of air incorporated, including ambient/room temperature, cement type, type of aggregates, the water/cement ratio and vibration time. Therefore, it is advisable to perform preliminary tests to assess the ideal quantity to use. **AER L2** is compatible with all types of cement: Portland, Pozzolana and blast-furnace.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Specific weight:	1.05 g/cm³
Flammability:	no
Chlorides:	none
Harmonised customs code:	38244000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Do not use **AER L2** in too dry a mixture.



Antigelo P4

Antifreeze powder with set-accelerating function

Form: white powder
Packs: 1 kg, 15 kg boxes
Pallet: 360 kg
Quantities required: 1-2 kg per 100 kg of cement

Main features

- Chloride-free
- High workability
- Does not alter final resistance ratings
- Ensures rapid release from formworks

Storage

Antigelo P4 can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Antigelo P4 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Antigelo P4 is suitable for the following:

- applying cement in temperatures below 0°C;
- mixing screeds and plasters/renders in low temperatures.
- mixing cement mortars during the winter.

Application: add 1 or 2 kg of **Antigelo P4** per 100 kg of cement when mixing the cement with the aggregates. Mix for a few minutes until a smooth consistency is obtained. It is important to carry out preliminary tests.

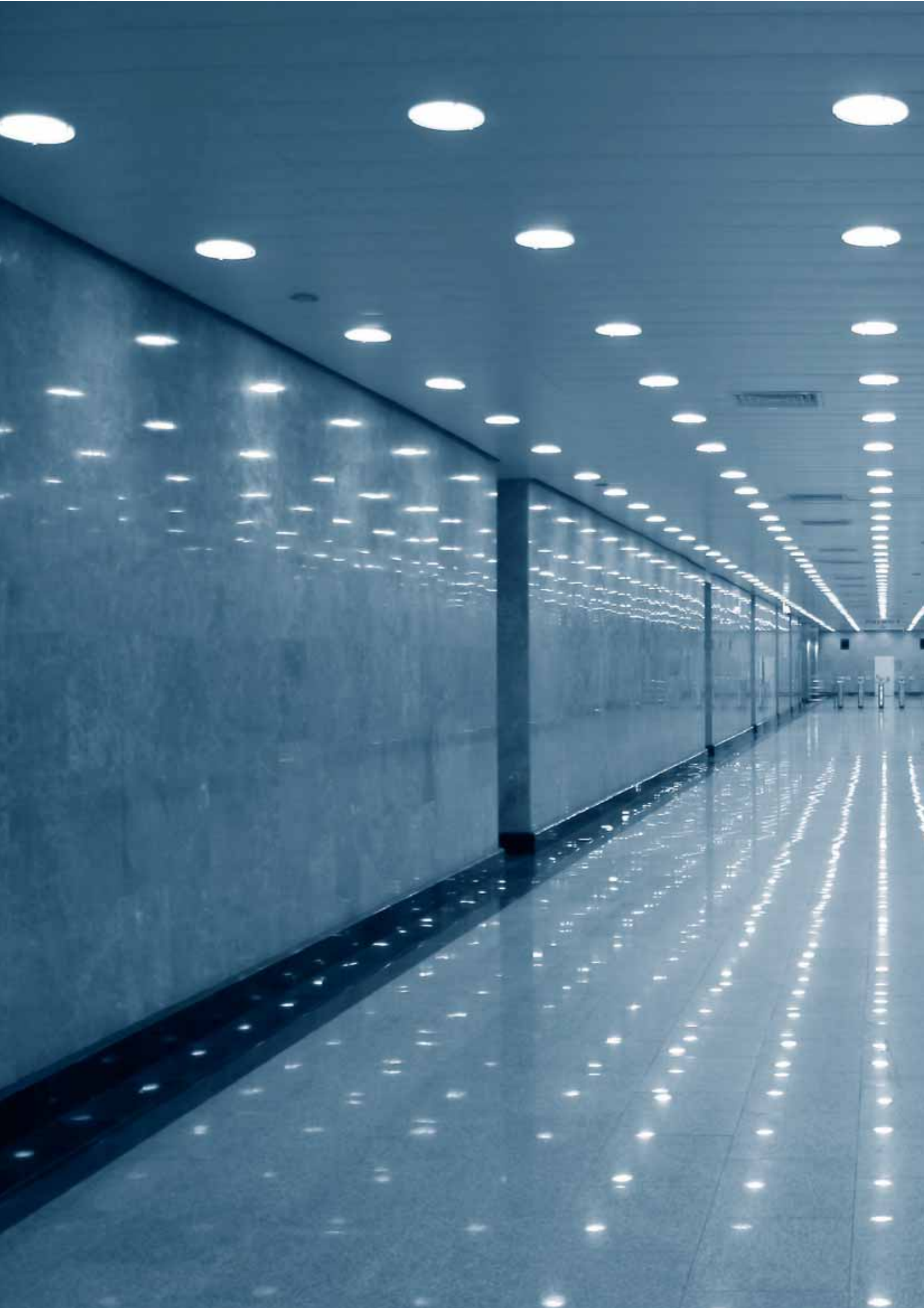
Warning

- Do not apply in temperatures below -10°C;
- check workability and bear in mind that setting is much quicker;
- avoid casting in the afternoon as the falling nighttime temperatures may affect the mechanical resistance ratings.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	contains caustic substances
Application temperature:	from -10 to +10°C C
Solid residue:	100%
Harmonised customs code:	38244000

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.







Legante Bianco

Premixed white binder

Form:	white powder
Packs:	5x5 kg
Pallet:	600 kg
Quantities required:	varies depending on the use

Main features

- Ultra-white
- Ultra-fine
- Highly workable

Storage

Legante Bianco can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Legante Bianco undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Legante Bianco is suitable for the following:

- concrete rendering with aggregate colour enhancing;
- sculptures, benches, flower boxes and pots;
- items of street furniture;
- repairs of various kinds.

Application: mix **Legante Bianco** with the aggregate and clean water until you obtain a creamy, easily workable paste.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Setting time (beginning):	≥ 75 minutes
Expansion:	≥ 10 mm
Application temperature:	from +5°C to +30°C

FINAL PERFORMANCE SPECIFICATIONS

Compression resistance after 7 days:	≥ 16 N/mm²
Compression resistance after 28 days:	≥ 32.5 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Warning

- Do not apply in temperatures below +5°C or above +35°C;
- do not use for elastic joints;
- do not apply to frozen or thawing bases or those at risk of freezing during the 24 hours following application.



Disarmoil

Concentrated formworks release agent for concrete in wooden formworks

Form: yellowish liquid
Packs: 5 kg
Pallet: 450 kg
Quantities required: 10-30 g/m² depending on the absorption

Main features

- Concentrated
- Facilitates release of concrete from wooden formworks

Storage

Disarmoil can be kept for up to 12 months if stored in a dry place and in its original packaging.

Quality and Environmental Standards

Disarmoil undergoes constant, careful testing at our laboratories, in compliance with the legislation in force - UNI EN ISO 9001/2000.

Fields of application

Disarmoil is suitable for the following:

- priming rough timber, plywood and planed timber formworks.

Preparation: we recommend you remove any foreign matter or fragments of hardened concrete from the formworks before priming.

Application: pour 20 parts water into a clean container and slowly add 1 part **Disarmoil** while mixing. For extremely absorbent surfaces, it is advisable to use 10 parts water with 1 part **Disarmoil**. Apply the emulsion with a brush or roller, spreading it evenly, and wait for the formworks to dry. In the event of new or extremely absorbent formworks, apply a second coat.

Warning

- Do not apply to metal, plastic or non-absorbent formworks;
- do not use **Disarmoil** neat.

Technical and application specifications

Hazard classification as per Directive 99/45/EC:	none
Dilution ratio:	1:10
Minimum application temperature:	+1°C
Drying time:	3-5 hours
Flammability:	no
Harmonised customs code:	34039990

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

