

Cem-Elastic

Flexible, crack-bridging coating

PRODUCT DESCRIPTION

Cem-Elastic is an elastic cement latex for the protection of concrete.

The product also bonds well to bitumen based substrates. It has very good crack-bridging properties and maintains its elasticity down to -20°C .

Cem-Elastic is open to diffusion and is UV resistant.

Cem-Elastic is a two component system with cement/latex binder.

The latex is an ammonia free acrylic copolymer in aqueous dispersion.

The product is delivered as powder A, in sacks and liquid B, in cans.

COLOURS

Cem-Elastic is available in white and two shades of grey.

Cem-Elastic is a cement latex and if a uniform colour is desired, it can be painted over, e.g. with **Elastocolor**.

AREA OF USE

Cem-Elastic is open to diffusion and acts as a carbonation retardant.

It effectively inhibits penetration by salts, and can withstand freeze/thaw cycles. Can be painted over with Rescon Mapei's paints for concrete.

Cem-Elastic have a good adhesion and is tolerant for light walking.

WORKING INSTRUCTIONS

Preparation

The substrate should be clean before application. Large cracks and other damage should be repaired. To ensure good adhesion the substrate must be free of all loose material, previous surface treatments or anything which could reduce adhesive properties. Sand blasting and sand washing are suitable methods of surface preparation, however high pressure water jetting or other mechanical methods may also be used. **Cem-Elastic** should not be applied if water is present on the surface.

The surface should be primed with **Primer E-10**. Hot surfaces should be dampened carefully to prevent over rapid curing. If in any doubt about the substrate a test should be performed.

Mixing

Component B should always be stirred before mixing. A non-homogenous mass should not be used. Component B must not be diluted.

Pour the correct amount of component B into the mixing vessel.

Add component A slowly whilst stirring with a slow drill with suitable mixing head. The consistency may be adjusted by the addition of water, but not more than 2.5% of the total weight (8.5 dl. per 35 kg set).

NB! Never add component B to component A

Usual mixing times are 2-4 minutes. The mixture should then be homogenous and lump free. The quantity mixed must be used within 60 minutes.

Application

Cem-Elastic can be applied by roller, brush or sprayer, depending upon the substrate, surface nature and the size of the job.

Apply in 2-4 coats.

Correct application for spraying: Spread the first coat with a rubber trowel, thus filling the pores in the substrate.

Apply 2nd – 3rd coats in the desired thickness.

Application should begin immediately after mixing. Any mixture which has been left standing and has begun to harden cannot be used or diluted, but must be discarded.

The second coat can be applied as soon as the first is sufficiently dry.

Never use **Cem-Elastic** in the rain or if there is a likelihood of rain or frost within 6 hours of application. Do not use **Cem-Elastic** on surfaces below $+5^{\circ}\text{C}$, even with increasing temperatures.

Curing

Normal curing times are 3-7 days, depending upon temperature, wind and substrate porosity.

CLEANING OF EQUIPMENT

All equipment and affected surfaces must be cleaned immediately with water before **Cem-Elastic** hardens.

SAFETY INSTRUCTIONS

For health, safety and environmental information, see separate HSE datasheet at www.resconmapei.com.

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application; in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

All deliveries from Rescon Mapei AS are made in accordance with the sale and delivery conditions applicable at the time, and these conditions are taken to be accepted on placement of an order.

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TECHNICAL SPECIFICATIONS

<i>Mixing ratio:</i>	<i>A/B = 2.5 /1</i>
<i>Pot life:</i>	<i>60 minutes at 20°C. At higher temperatures the pot life will be shorter.</i>
<i>Dry solids content:</i>	<i>80 %</i>
<i>Density:</i>	<i>1.8 kg/l</i>
<i>Resistance to CO₂:</i>	<i>90 %</i>
<i>Chloride retarding effect:</i>	<i>95 %</i>
<i>Permeability to water vapour, μ H₂O:</i>	<i>1.839 (ref. Sintef report)</i>
<i>Adhesive strength:</i>	<i>> 1,2 MPa</i>
<i>Tensile strength:</i>	<i>at +20°C: 0.9 MPa at +10°C: 1.5 MPa at -20°C: 3.0 MPa</i>
<i>Dynamic crack-bridging effect:</i>	<i>0.2 – 0.4 mm (at -20°C) (ZTV – SIB 90 TPOS)</i>
<i>Resistance to ageing:</i>	<i>Very good (ZTV – SIB 90 TPOS)</i>
<i>Consumption:</i>	<i>2.5 – 3.5 kg/m² depending on unevenness of substrate, desired thickness and crack-bridging.</i>
<i>Packaging:</i>	<i>35 kg sets. component A in 25 kg sacks component B in 10 kg cans</i>
<i>Storage:</i>	<i>Stored frost free in unopened packaging, product properties remain unchanged throughout the first 12 months.</i>