Zentrifix®-Elastic

Flexible membrane forming waterproofing and protection slurry

Product Properties

- Two component Solvent Free polymer modified hydraulically setting coating
- Crack bridging characteristics
- Resistant to carbonation
- Withstands chloride ion diffusion while retaining breathing capacity
- Resistant to water pressure up to 7 bars
- No curing required
- Can be applied by brush or spatulas
- Good resistance to Sulphate and Chloride attack
- Excellent adhesion to old and new surfaces

Areas of Application

- Sealing of strained basement walls
- Waterproofing system for high water heads
- Sealing and protection of bridge decks, splash zones, tunnels, cooling towers, balconies etc.
- Waterproofing systems for any over or underwater applications (with suitable protective layer)
- As a carbonation resistant coating in repair and protection systems
- Excellent coating for areas showing many changes in geometry

Application Notes

General

Zentrifix®-Elastic is a two-component mineral based polymer modified waterproofing and concrete protection system for specialized structures like dams, bridges, culverts, tunnels and all hydraulic structures where the water pressures are high. It is fully suitable for normal waterproofing requirement of terraces, parking structures, basements, swimming pools, sanitary areas etc. When two components are mixed and applied, the film formed is a thick elastic membrane with good abrasion and chemical resistance. It is most suitable for protection from chloride attacks.

Advantages

Zentrifix®-Elastic when hardened produces a seamless elastic film, which is having excellent water resistance. The component **Zentrifix®-Elastic** is a cement bound mineral modified mortar of proper grading. The second component **Emceflex 15** is an acrylic polymer-based emulsion. The crack-bridging ability is about 0.7 mm in normal application thickness. Additional coats increase the crack bridging characteristics

Instructions for use

Surface Preparation

The surface to be coated must comply with the principles of building construction and should fulfill the structural requirements, including properly designed slopes to avoid stagnation of water in case of roofs. Any cracks, pot holes expansion joints etc. should be firm, clean free from fats, oil grease, dust or any other contaminations

All loose materials, dirt, grease, oil, dust, mould release agents, etc. should be removed from the substrate to be treated. The substrate should have sufficient bonding strength, for example in case of concrete at least 1.5 N/mm^2 in order to achieve efficient and durable waterproofing layers.

If the surface is very smooth, we advise to roughen by suitable methods for example by using wire, Brush or Similar Tools.

Mixing Instruction

Zentrifix®-Elastic consists of a powder **Zentrifix®-Elastic** and a liquid component **Emceflex 15**. The liquid component should be emptied into a clean mixing vessel and the powder slowly added to it, while mixing with a slow speed-mixing paddle (approx. 400 rpm) until a consistent, lump free homogeneous mass is produced. The mixing ratio is approximately 100 parts by weight of powder to 50 parts by weight of liquid.

Application

Zentrifix®-Elastic can be applied by trowel or brush. Before application the surface should be slightly moistened but should not be wet. **Zentrifix®-Elastic** can be applied in standard thickness of 2 to 3 mm in two coats. Maximum thickness of 4 mm is allowed and the application should be in three coats. The first coat should be carefully worked into the surface by brush in order to close the pores. Allow three to four hours before the next coat. The final coat should be finished with a steel trowel. Do not use wooden or rubber-based finishing tools. **Zentrifix®-Elastic** should be applied within the temperature range of 10°C to 35°C.

Curing and Protection

Zentrifix®-Elastic coatings are self-curing, but should be protected from direct sunlight, moisture, rain, frost etc. It is recommended that any protective decorative systems like tiles, wooden panels, plastics boards etc. be fixed only after **Zentrifix®-Elastic** coating is sufficiently hardened, at least after 7 days. Care should be taken that the layer of **Zentrifix®-Elastic** is not damaged during subsequent operations. Small damages can be retouched easily before subsequent operations.

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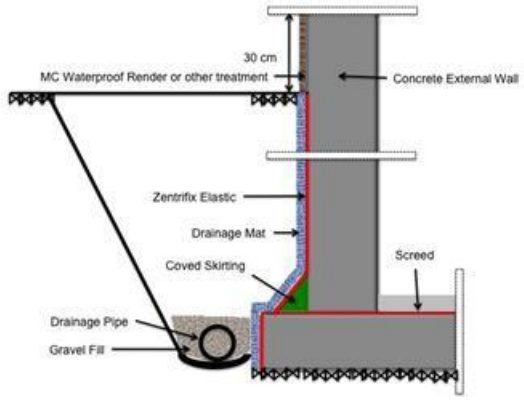
Further Instructions / Precautions

Application Example



Flexibility of thicker coats of Zentrifix-elastic

Technical Data for Zentrifix®-Elastic

Characteristic	Unit	Value*	Comments
Density	Kg/Cm^3	1.70	
Mixing Ratio	p.b.w	2:1	Powder : liquid
Crack Bridging Capacity	mm	Up to 0.7	Static crack
Resistance to Waterbar pressure	bars	7	DIN 1048 (Positive Side)
Dynamic modulus of Elasticity	N/mm^3	6.3×10^3	28 days, 20^0 C & 65% RH
Pot life	Minutes	30	At + 20^0 C
Application temperature	^0C	+ 5^0 to + 30^0	
Consumption	Kg / m^2/ mm	1.70	
Elongation	%	13	
Permeability	Cm/s	5.464×10^{-10}	

***All the technical Values were determined in laboratory, at a temperature of 20^0 C and 65% relative humidity

Product Characteristics for Zentrifix® -Elastic

Type of Product	Flexible waterproofing slurry and protection coat
Form	**Zentrifix®-Elastic** : Powder **Emceflex 15**: Liquid
Color	**Zentrifix®-Elastic** : Grey **Emceflex 15**: Whitish
Shelf Life	12 Months In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Delivery	**Zentrifix®-Elastic** : 30 kg sacks **Emceflex 15** : 30 kg & 5 kg containers
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Safety Advice
Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

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