



Emceflex 15

Multipurpose acrylic polymer based waterproofing and repair mortar admixture.

Product Properties

- Admixture for waterproofing polymer plasters and polymer modified mortars for concrete repairs
- Acrylic copolymer based material for protection of concrete and masonry
- Resistant to microorganisms, fungus, algae and moss
- Resistant to alkali and water
- Non toxic, Ideal for waterproofing of potable water tanks
- Free from chlorides and other harmful ingredients
- Does not get affected by Ultraviolet rays
- Bonds tenaciously with almost every building material

Areas of Application

- Suitable for waterproofing of basements, sunken slab of toilets, terraces, roofs, etc.
- Suitable as admixtures for repairing concrete, masonry, surfacing and renders in conjunction with cement
- Repair component for repairing spalled concrete, floors, cantilever, domes, sunken slabs for water closets, etc.
- Bonding additive for new to old concrete
- Admixture for cement based exterior coating
- Bonding additive for tile fixing
- Second component of **Dichtament DS-Flex** flexible waterproofing system

Application Notes

Emceflex 15 is a multi-purpose acrylic polymer based admixture, which is specially formulated for the construction Industry. It is a very versatile material and can be used as surface sealer, dustproofer and as an additive for sand/cement mortars for waterproofing and concrete repairs. **Emceflex 15** admixed concretes or mortars exhibit higher abrasion resistance and enhanced imperviousness to water.

Instructions for Use

Surface Preparation

All surfaces for repairs or waterproofing must be structurally sound, free from loose particles, dust, grease, oil, laitance, dirt, old mortar, white-wash, paint and any other contaminations. The surface should be prepared by removing such contaminations by wire brush or stiff brush and should thoroughly be cleaned before **Emceflex 15** admixed mortars are applied. Gloss or textured painted surfaces, must be tested for degree of adhesion prior to applying **Emceflex 15** based materials. **Emceflex 15** containers should be well shaken and the contents thoroughly stirred prior to use.

Application

Bond coat: All repair systems need a bond coat to be applied on the prepared surface. The bond coat should be forcefully & evenly brushed into the substrates after the pre-moistened surfaces have dried. For bond coat as well as other mixtures it should be ensured that **Emceflex 15** is thoroughly dispersed and the mix is lump free.

Repair Mortar: The repair mortar should be applied wet-on-wet after the bond coat while it is still fresh. The compositions of bond coat & repair mortar for different cases are given below. In general the dosage of **Emceflex 15** varies as per the actual requirements. **Emceflex 15** is recommended for application under wet conditions

or on moist and damp substrates.

Curing

Emceflex 15 inhibits rapid drying-out of the fresh mortar. The mortar should all the same be suitably protected from rapid drying in order to ensure uniform development of strength please note that all generally applicable regulations and working principles must be observed when using **Emceflex 15** for the production and application of cement mortars/plasters.

Emceflex 15 should not be over diluted with water. The setting time of **Emceflex 15** admixed mortars varies depending upon the temperature, humidity and porosity of the substrate and is normally between the region of thirty minutes and three hours. We recommend using **Emceflex 15** in temperatures between 5°C-40°C to get optimum results. The tools, brushes and any other equipment used should be cleaned with water white surplus adhesive is still wet.

Coverage/Consumption

The coverage / consumption varies with the nature of work, surface absorbency etc. Figures below give a general guide for usage of **Emceflex 15** for slightly absorbent surfaces.

- 1 pbw Cement-Sand mix + 1 pbw **Emceflex 15** for Water proofing
- 5 – 10% by wt of cement for Mortars
- 10 – 20% by wt of cement for Repair Mortars
- 8 – 10% by wt of cement for screeds
- 3 – 4 kgs/bag of cement for paints, stuccos
- 50-60 % by wt of cement. For **Dichtament DS-flex** system



Further Instructions/Precautions

Mixing ratios of Emcefex 15 for various applications

- Emcefex 15 for waterproofing:** Add 1 pbw Cement-Sand Mix (1:1) to 2 pbw **Emcefex 15**. This mix can be brush applied. Over coating time is 5 hours.
- Primer for porous substrates:** Add 1 pbw **Emcefex 15** to 5 pbw water.
- Bonding Coat for all surfaces:** Add 1 pbw **Emcefex 15** to 2 pbw water. Plasters, renders can be applied while bond coat is still tacky.
- As a surface sealer:** Add 1 pbw **Emcefex 15** to 3 pbw water for an excellent sealer for porous surfaces before painting, coating, etc. Knotting on woodwork can be sealed using 1 pbw **Emcefex 15** to 1 pbw water.
- Emcefex 15 for tiling:** Tiles such as acoustic concrete, wood glazed etc can be bonded by priming the cleaned substrates with **Emcefex 15** as primer. Mix 1 pbw **Emcefex 15** to 3 pbw water and add this liquid to cement-sand mix, which is used in conventional tiling works.
- As an additive for cement/sand renders, Plasters, screeds and repair mortars:** Add 1 pbw Cement-Sand Mix (1:3 or 1:4) to 1 pbw **Emcefex 15** plus 1 pbw water as gaugung liquid. Sufficient gaugung liquid should be added for workability to get mortar with enhanced characteristics. Dosage of 10%-20% by
- As Dust-Proof:** Dusty cementitious industrial floors can be sealed using 1 part of **Emcefex 15** diluted with 5 parts of water. Apply two coats of this mixture to the substrates, allowing 1-2 hours between coats. If the second coat of 1 pbw **Emcefex 15** with 3 pbw water is used, the concrete surfaces, when dry will have an increased resistance towards oil, dilute acids and dilute alkalis.



Technical Data for Emcefex 15

Characteristic	Unit	Value	Comments
Density	Grams / cm ³	1.01	± 0.02
Consumption	% By wt of cement	10% - 20%	Approx for repair mortars other applications given above

Product Characteristics for Emcefex 15

Type of Product	Multipurpose acrylic polymer based waterproofing and repair mortar admixture.
Colour	Milky white
Shelf Life	6 to 9 months
Delivery	230 kg drums and 30 kg pails.
Storage	Protect from direct sunlight and frost
Disposal	Empty packs completely and dispose carefully to protect our environment.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times.

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