



# Emceflex 30

## 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

#### General

**Emceflex 30** 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, dust-proofer and as an additive for sand/cement mortars for waterproofing and concrete repairs. **Emceflex 30** 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 30** admixed mortars are applied. Gloss or textured painted surfaces, must be tested for degree of adhesion prior to applying **Emceflex 30** based materials. **Emceflex 30** 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 30** 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 30** varies as per the actual requirements. **Emceflex 30** can be applied on to moist and / or damp substrates.

#### Curing

**Emceflex 30** 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 30** for the production and application of cement mortars / plasters.

**Emceflex 30** should not be over diluted with water. The setting time of **Emceflex 30** 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 30** in temperatures between 5°C and 40°C to get optimum results. The tools, brushes and any other equipment used should be cleaned with water while 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 30** for slightly absorbent surfaces.

- ❑ 1 pbw Cement-Sand mix + 1 pbw **Emceflex 30** for Water proofing
- ❑ 5 – 10% by weight of cement for Mortars
- ❑ 10 – 20% by weight of cement for Repair Mortars
- ❑ 8 – 10% by weight of cement for screeds
- ❑ 3 – 4 kgs/bag of cement for paints, stuccos
- ❑ 50-60 % by weight of Powder for **Dichtament DS-flex** system

## Further Instructions / Precautions

### Mixing ratios of Emceflex 30 for various applications

- ❑ **Emceflex 30 for waterproofing:** Add 1 pbw Cement-Sand Mix (1:1) to 2 pbw **Emceflex 30**. This mix can be brush applied. Over coating time is 5 hours.
- ❑ **Primer for porous substrates:** Add 1 pbw **Emceflex 30** to 5 pbw water.
- ❑ **Bonding Coat for all surfaces:** Add 1 pbw **Emceflex 30** to 2 pbw water. Plasters, renders can be applied while bond coat is still tacky.
- ❑ **As a surface sealer:** Add 1 pbw **Emceflex 30** to 3 pbw water for an excellent sealer for porous surfaces before painting, coating, etc. Knotting on woodwork can be sealed using 1 pbw **Emceflex 30** to 1 pbw water.
- ❑ **Emceflex 30 for tiling:** Tiles such as acoustic concrete, wood glazed etc. can be bonded by priming the cleaned substrates with **Emceflex 30** as primer. Mix 1 pbw **Emceflex 30** 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 **Emceflex 30** 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 weight of cement is recommended for repair mortar

- ❑ **As Dust-Proof:** Dusty cementitious industrial floors can be sealed using 1 part of **Emceflex 30** 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 **Emceflex 30** 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 Emceflex 30

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

## Product Characteristics for Emceflex 30

<b>Type of Product</b>	Multipurpose acrylic polymer based waterproofing and repair mortar admixture
<b>Form</b>	Liquid
<b>Colour</b>	Milky White
<b>Shelf Life</b>	9 Months from date of Manufacture
<b>Delivery</b>	230 kg drums and 30 kg pails
<b>Storage</b>	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
<b>Disposal</b>	Empty packs completely and dispose off 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. E. & O.E.

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