

DECK FLEX

Emulsion based admixture for enhancing the binding properties of mineral cement



Introduction

Deck Flex is an acrylic polymer based admixture for cement, cementitious screeds & concrete. It is also used to enhance the bonding properties of cementitious adhesives generally used for tiles and marble or stone cladding. The use of Deck Flex in cementitious concrete/mortar/plaster enhances the flexure and tension mechanical properties. Deck Flex modified products exhibit low permeability and remarkable improvement in prevention of carbonation and chloride ion penetration. The addition of Deck flex imparts resilience to concrete matrix thus improves impact resistance.

Applications

- As an admixture for repair mortars & concretes for structural rehabilitation of building and bridges
- Self leveling high bonding screeds
- Watertight plaster jackets and brickbat coba or screeds
- Coating system with cement to protect the structure against carbonation and chloride ion penetration
- As an admixture for cementitious grout
- Bonding agent for new and old concrete

Key Features

- Increases tensile and flexural properties
- Increases impact resistance
- Reduces permeability and thus water absorption
- Reduces shrinkage cracks
- Increases cohesive and adhesive properties

Technical Data

Base	Acrylic Polymer
Appearance	Milky White Liquid
pH	> 8.0
Solid Content	45 %

Application Procedure

Mix Deck flex in water prior to addition in cement mortar or concrete.

Dosages vary from 5% to 8% by weight of cement depending upon the specified use of concrete or mortar.

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Application Procedure

A) Polymer Modified Mortars

Cement: 100 parts by weight (pbw)
Sand: 300 pbw
Deck flex: 5% to 8% pbw
Water: 30 to 35 pbw

B) Polymer Modified Concrete

Cement: 100 pbw
Sand: 200 pbw
Aggregate: 300 pbw
Deck flex: 10 to 15 pbw
Water: 35 to 40 pbw
Slump: 75mm

C) Bonding Slurry Coat

Cement: 100 pbw
Deck flex: 50 pbw + Water 50 pbw
Coverage: 2 sqm per kg of mix

Curing

Polymer modified concrete, mortars or slurries being cementitious materials should be well protected from rapid drying and hence recommended to be cured under temporary shades & light sprinkling of water or in damp and cold atmosphere.

Packaging

20 kg pails / 10 kg pails / 5 kg pails

Storage

Deck Flex must be stored at room temperature in sealed container. Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is at least 6 months from the date of manufacture if stored following aforesaid method.

Health and Safety

Deck Flex is a nontoxic and nonflammable product. It does not create a fire hazard. Avoid prolonged contact with skin. In case material comes in contact with eyes, rinse your eyes with copious amount of clean water. Use protection – creams / gloves in case of sensitive skins. It is easy to clean with water when the material is wet. In case Deck Flex is dried use general acrylic paints cleaners.

Product Disclaimer

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental conditions while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt about application performance.