

PLASTERSTRONG Cement Modifier

Water based, acrylic emulsion polymer modifier for cement compositions

A one component, water based, acrylic emulsion polymer.

Intended Uses:

Is designed for modification of cement in a wide range of applications such as Industrial cement floors, patching & resurfacing compounds, floor underlays, terrazzo flooring, spray & fill coats, pre-cast architectural building panels, cement slurries, highway and bridge deck repair mortars and systems, floor screeds, ceramic tile adhesives, renders, tile grouts, gypsum modification.

When used as a modifier it provides enhanced adhesion to various substrates such as concrete, brick, wood, metal, and others.

It enhances the flexural strength, impact strength as well as provides remarkable abrasion resistance compared to unmodified cement.

Cement mortars modified with PLASTERSTRONG Cement Modifier are resistant to many industrial chemicals and have remarkable resistance to ultraviolet light & heat.

Also used as a key bonding agents, keying and modifier for plasters and repair mortars.

Properties:

- Water based, one component.
- Enhanced workability of cement mortars.
- Enhanced cement hydration by retaining water rather than evaporation.
- Enhanced toughness and restrain micro-crack propagation.
- Reduced shrinkage, lower porosity.
- Efflorescence resistance (resistance to ion permeability).
- Outstanding durability.
- Improved mechanical properties on cement
 - 20% less water consumption
 - 3X greater flexural strength
 - 3X greater tensile strength
 - 3 x greater impact strength
 - 10 X greater adhesion
 - 30 X greater abrasion resistance

Technical Data:

Composition	Water based fine particle size acrylic emulsion
Colour & Appearance	Clear
Pack Size	5, 10, 200 Kg
Density kg / Lt	1.02 Kg/ Litre
Volume Solids	20%
Mixing Ratio	Up to 20% on cement
Coverage	As a plaster keying agent – 10 m ² / Litre
Storage	Store out of direct sunlight in dry conditions between 15°C and 25°C
Shelf Life	12 months when stored as recommended in original un-opened containers
Clean Up	Water

Patching, Repairs & Skimming

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Surface must be free of any fungal growth or algae, clean with Fungicidal Wash.
- Laitance and loose particles must be removed thoroughly i.e. grinding /high pressure cleaning.

Mixing:

Shake before use.

Caution:

- Always consult with technical department if unsure.
- Refer to product MSDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.

Systems:

Consult with Specialized Coating System for application specific recommendations.

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