

CEMGRIP

Single Component Polymer Modified Flexible Water Proofing Slurry

Description:

CEMGRIP is a high performance, flexible, polymer modified, single component cementitious slurry. CEMGRIP provides a water proofing layer and enhance the bond performance when applied to the substrate between old and new cementitious screed or concrete. In addition, it can be used to primer floor substrate to improve self levelling and screed mortar bonding.

Uses:

CEMGRIP can be applied internally and externally in several applications including:

- Applied on old casted concrete elements before casting the new concrete.
- Use before application of self-level or screed flooring products over sound and stable concrete substrates, whether they are smooth and non-absorbent or profiled and absorbent.
- Bonding overlays casting such as terrazzo screed to existing substrate.
- Can be applied for below as well as above grade concrete walls and floors
- Act as a water proofing coating for water features.

Advantages:

- Single component, easy to mix and apply.
- Provides excellent bond strength with resistance to moisture and aging.
- Provides flexible crack bridging layer when cured.
- Compatible with various types of coatings, tile adhesives and topping.
- Impermeable to water under pressure.
- Economical, cementitious primer, one component product, need only addition of water.
- Single-coat application for faster turnaround and lower installation costs.
- Excellent resistance to a range of chemicals.
- Low-odor and VOC compliance-great for use in interior, occupied environments
- Easy handling and application properties.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds; dirt, oil and grease. Ensure that concrete surfaces are cured for at least 14 days before coating the product.

For hard laitance, paints or contamination, clean the concrete surface with mechanical preparation method, like captive blasting or sand blasting.

Concrete defects in the substrates and cracks should be rectified properly. Consult with MATEX technical staff to propose the right product for each case.

Before applying CEMGRIP, soak the surface with water in order to reduce the absorption of water by the substrate from the mortar. Allow excess water to drain or to evaporate. Ensure a saturated surface dry condition "SSD" prior to application.

Mixing:

CEMGRIP as a single component dry mix mortar can be mixed on site with water. Pour 6.0 to 6.5 liters of water in a clean vessel then empty the content of the 20 kg bag of CEMGRIP to the vessel. Water can be adjusted to suit the application purpose. The high content of polymer can allow to adjust the water added to suit the application. Use stiff mix when troweling or dash splattering or mix with extra water when applying with brush.

Mix the product using a slow speed mixer (300-400 rpm) fitted with a suitable paddle for 2 to 3 minutes till a homogenous lump free consistent mix is reached. Mix only enough material that can be used within 30 minutes after mixing and stir the mixture frequently.

Application:

CEMGRIP can be applied with trowel or brush. Wet the surface of application thoroughly with clean water till a

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saturated surface dry 'SSD' condition is reached to allow the best adhesion and proper curing of the slurry.

As Bonding agent: Apply a thin coat of CEMGRIP using a stiff bristle brush ensuring that the material gets in contact with the profile of the substrate. CEMGRIP thickness should not exceed 2 mm at any point. While still tacky, apply the new topping before the CEMGRIP layer dries. Do not allow to dry. Never apply any topping on a dry coating of CEMGRIP; application on a dried coating may lead to delamination of the top screed. If the CEMGRIP layer dries before it receives the new topping, apply a new thin coat of CEMGRIP.

As Overlayment Bedding & Bonding: Two coats are recommended: the first allowed to dry, and the second just prior to placement of the overlay material. First coat will level the profile of the substrate and promote uniform drying of the topping. Second coat will enhance the bond of the topping to substrate. Apply both coats CEMGRIP as thin as possible using a squeegee. CEMGRIP coat should not exceed 2 mm thickness in any single coat application. Overlay must be placed on the CEMGRIP coat while it is still tacky. Do not allow CEMGRIP to dry. Never apply any topping on a dry coating of CEMGRIP; application on a dried coating may lead to delamination of the overlay. If the CEMGRIP layer dries before it receives the new topping, apply a new thin coat of CEMGRIP.

Standards:

- BS 6920 ,BS 476, Part 6, ASTM E 96
- EN 14891

Storage:

Store in original packing in dry conditions away from direct sunlight and high humidity levels.

TECHNICAL PROPERTIES	
Color	Cement Grey
Tensile Strength	3.2 N / mm ²
Recoating Interval	4-8 hours
Bond Strength	2.0 N / mm ²
Density	Wet 1.85 Kg. / Lt. Dry 1.70 Kg. / Lt.
Shore A Hardness	30
Pot-life time after mixing at 25°C	45 minutes
Vapor Permeability (ASTM E96)	5 Perms
Application temp.	+5°C to +35°C
Heat Resistance	-30°C to +90°C

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Packaging:

CEMGRIP is available in 20 kg recyclable paper bags.

Coverage:

CEMGRIP achieves coverage of 6.5 square meters per bag @ 2.00mm (DFT) thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Cleaning:

Clean all tools with water before product hardens.

Shelf Life:

CEMGRIP can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

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Limitations:

- CEMGRIP is not recommended for exterior facades, installations subjected to commercial traffic or severe freeze-thaw conditions; instead, epoxy setting systems are required for such applications.
- Ensure that the substrate is free of curing compounds, dust, oil, silicon sealer or any contaminant
- Do not use detergents to clean the substrate as it may leave a film on the surface which can cause bonding failure.
- Consult MATEX Technical Department for installation recommendations regarding substrates and conditions not listed.

Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to CEMGRIP Material Safety Data Sheet.

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