



Hydraflex 100

Water Resistant Bonding Agent and Reactive Mortar Improver

Description

Hydraflex 100 is a liquid bonding agent based on a composite polymer latex dissolved in water, specially formulated for use with cement mixtures. It is used as bonding between new/old, new/new, mortars and concrete layers to improve bonding, water-resistance and other important characteristics. Reduces water permeability of mortars and concrete. Ready-to-use and easily applied.

Object

- As a mortar, when mixed with sand and cementitious for patching on surface of old or new concrete floors and mortars
- As a bonding agent between new/old concrete layers; new/new concrete to mortar layers
- As a cementitious slurry brushed into previous layers before application new concrete/mortar to form a very strong bond between such layers as also to improve water-resistance
- For patching of floors/walls
- Finishing of concrete block walls
- Concrete repairs for honey-combs, spalled concrete, repairs to floors, worn steps and surfaces, beams and pre-cast elements including concrete piles
- Adhering leveling mortars that feather out to zero
- As a bedding mortar, including thin-bedding, for tiles and terrazzo compounds for improving bonding and ensuring water-proofing

- For weather-resistant external renderings
- For water-proofing of tanks, swimming pools, lift pits
- Increases the elasticity of bond between different layers and thereby reduces or prevents the formation of stress cracks during curing as also stress from vibrations in floor (running fork-lift trucks ,etc)
- Does not contain chloride, non-corrosive and non-flammable
- Repairs in cold stores and cold rooms (down to 2 °C);

Advantage

- Forms strong and durable bond between layers of concrete, concrete mortars, old/new and new/ new.
- Ready-to-use and with easy application;
- For exterior and interior uses
- Withstands water exposure, short duration as well as long-time;
- Bonds to most cementitious surfaces;
- Improves oil penetration and resistance to mild chemicals;
- May be used on wet surfaces close to or slightly below freezing

Characteristics

| | |
|-----------------|-------------------|
| Appearance: | milky liquid |
| Bulk density: | 1.1 +/- 0.01 kg/l |
| pH value: | 7.0-7.5 |
| Freezing point: | -2 °C |
| Flash-point: | Non-flammable |

Instruction for Use

Hydraflex 100 must be applied on a clean and sound concrete/mortar, free from laitance, dirt, oil and grease. Surface must be pre-wetted prior to application of Hydraflex 100. Mixing according to separate mixing table and in accordance to objects and usage.

Packaging

In drums of 210 kg. , 20 kg.

Storage

Hydraflex 100 should preferably be or protected from frost. If the product does become frozen, it should be carefully mixed after thawing out to restore it to its normal state. Do not expose to direct sunlight

Precaution

Non-toxic. In case of contact with skin, wash with clean water. In case of eye-contact, wash immediately with an abundance of clean water and contact eye-doctor.

| Type of Application | Mixing Ratios | | Consumption(parts by volume) Hydraflex 100 , kg/m per 10 mm |
|--|---------------------|---------------------|--|
| | Hydraflex 100:Water | Cement:Sand | |
| Patching and repair | 1:2 | 1:2 Up to 10 mm | 0.5-1 |
| | 1:3 | 1:3 More than 10 mm | 1-2 |
| Bonding slurry for bonding new to hardened bases | 1:1 | 1:1 | 2.5 |
| Levelling and smoothing mortars with increased oil benzene, water and mild chemical resistance | 1:2 | 1:2-3 | 0.7 |
| Repairs to pre-stressed Concrete | 1:1 | 1:2 | 1 |
| Joints in precast concrete | 1:1 | 1:2 | 1 |
| Wide cracks in vertical and horizontal surfaces | 1:1 | 1:2 | 1 |
| Waterproofing slurry, | 1:1 | 1:2 | 1 |

Act (Thailand) Co., Ltd.

Address : 19 Moo 1 Kubangluang
Lardlumkaew Pathumthai 12140
Tel. : (66)-0-2979-4446-9 , (66)-0-29794936-9
Fax. : (66)-0-2979-4445
Email : info@actthai.com
Web Site : <http://www.actthai.com>

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