HYGROSMART®-IMPER-C

One Component, Flexible Cementitious Mortar for Waterproofing & Protection.

DESCRIPTION

HYGROSMART®-IMPER-C is a one component fiber-reinforced waterproofing mortar based on cementitious binders, synthetic & inorganic polymers and high technology additives.

When mixed with water it produces a homogeneous liquid mixture with excellent workability and easy application. Its very strong adhesion and outstanding mechanical properties result in a crack-free surface highly resistant to hydrostatic pressures, thus making **HYGROSMART®-IMPER-C** ideal for waterproofing basement walls and tanks.

Apply with brush in one or more coats of thickness 1.0 mm each.

COMPLIANCE-CERTIFICATION

The product is **CE** certified according to the European Standard **EN 1504-2.**

RECOMMENDED FOR

Waterproofing and protection of:

- Concrete and structural concrete elements
- Underground structures
- Water tanks & swimming pools, flower pots

LIMITATIONS

- Temperature during application limited in the range of 5ºC -35ºC.

FEATURES & BENEFITS

- Easy to apply
- Long pot life
- Very strong adhesion
- Completely waterproof
- Highly resistant to the natural elements
- Highly resistant to positive and negative pressures
- Very good mechanical properties.

APPLICATION PROCEDURE

Clean the substrate using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed. Surface irregularities or cracks should also be filled with **EPOXY RESIN-21-T** or **HYGROSMART®-BUILDING-F.** All flashing points & joints between horizontal and vertical surfaces should be covered / smoothed using a cement mortar with **HYPERLATEX** or, as above, the repair mortar **HYGROSMART®-BUILDING-F**.

Priming:

Simply dampen the substrate with water.

Mixing:

a. HYGROSMART®-IMPER-C plus water

Gradually add 7-8 kg of water to the mortar (25 kg) using an electrical mixer at moderate rpm.

b. HYGROSMART®-IMPER-C plus HYPERLATEX and water (recommended)

For 25 kg of HYGROSMART®-IMPER-C use between 1 and **max 2 kg** of HYPERLATEX. HYPERLATEX is added to **a portion** only of the total quantity of water to be used. This mix is then gradually added to HYGROSMART®-IMPER-C using moderate mechanical mixing. Add water further to obtain the required consistency.

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Application:
Apply with brush in one or more coats of thickness 1.0 mm max each, in order to minimise the possibility of crack creation. Dampen each coat after initial drying. Additional coats are applied within 6-24 hours, subject to coat thickness and temperature during application, as soon as the underlying coat has hardened.

CONSUMPTION

Minimum consumption: 2-2.5 kg/m^2. Max coat thickness: 1.0 mm.

PACKAGING

25 kg bags. **Colour**: Grey.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened bags in dry places and at temperatures of 5-25 ^{o}C.

SAFETY INFORMATION

Contains cement: May cause skin irritation due to alkaline reaction. Use protective gloves and goggles. The MSDS (Material Safety Data Sheet) is available on request.

TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	SPECIFICATION
Density of dry mortar	Kg/l	1.30-1.50
Density of wet mortar	Kg/l	1.90-2.10
Compressive strength	N/mm^2	35±3,00
Bending strength	N/mm^2	6,90±1,00
Pot life in the pail	h	1 (20^{o}C)

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CE

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HYGROSMART IMPER-C

Concrete surface protection systems - Coating

www.alchimica.com

PROPERTY	UNITS	SPECIFICATION	HARMONIZED STANDARD
CO_2 permeability	m	180	EN 1504-2: 2004
Water vapour permeability	m	4,2	
Capillary absorption & permeability to water	$Kg/m^2.h^{0,5}$	0,08	
Adhesion strength by pull-off test	N/mm^2	1,2	
Reaction to fire		Euroclass A1	
Dangerous substances		does not contain	

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