HYGROSMART®-IMPER-C-2K-FLEX

Product Data Sheet

Two-Component, Flexible Cementitious Mortar For Waterproofing & Protection

Description

HYGROSMART®-IMPER-C-2K-FLEX is a two-component waterproofing mortar based on cementitious binders, synthetic & inorganic polymers and high technology additives in water dispersion.

It is a low viscosity mixture with excellent workability, easy application and very strong adhesion. On vertical substrates, one can apply a layer of thickness up to 2 mm in one coat. It also displays outstanding mechanical properties. It remains flexible even when subjected to varied weather conditions and mechanical stresses.

Recommended For

Waterproofing and protection of:

- Wet rooms, roofs & balconies, swimming pools (under tiles)
- Water tanks
- Concrete structures
- Pre-cast panels
- Underground structures
- Retaining walls

Compliance

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

Features & Benefits

- Completely waterproof.
- Highly resistant to positive and negative pressures.
- Easy to apply.
- Very strong adhesion.
- High weather and UV resistance.
- Good mechanical properties. Its flexibility allows it to bridge effectively cracks up to 1 mm wide.
- Slows down the process of carbonation.
- Product exceeds requirements of **EN 1504-2** standard.

Limitations

- Temperature during application limited in the range of 5°C -35°C.
- Max coat thickness of 2 mm.
- Do not add water, cement or any other aggregate
- Do not apply in swimming pools in non-protected surfaces

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.**

- **Priming :** Simply dampen the substrate with water.
- **Mixing :** The resin component is added gradually to the mortar and mixed mechanically at 400 rpm until you reach a smooth and homogeneous mix.
- **Application :** Apply with trowel, brush or roller in minimum two coats of thickness 1.0-2.0 mm each. If during application the mix thickens, do not add water. You may instead, dampen the substrate further. The second coat is applied approximately 4-5 hours after the first. Pot life is approximately **1 hour**. The final surface should not get wet for 7 days.

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Consumption

Minimum consumption: **1.7 kg/m² per 1mm thickness.** Coat thickness of **1.0-2.0mm.**

Shelf Life

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

Packaging

- Mortar: 25 kg.
- Resin: 8 kg.
- Colour: Grey.

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 component A	kg/l	1.45
Density component B	kg/l	1.02
Density of mix A+B	kg/l	1.72
Spread	mm	307
Adhesion	N/mm²	>2.0

CE
2085

2085-CPR-061/07.12.2018
EN 1504-02:2004

HYGROSMART IMPER-C-2K-FLEX
Concrete surface protection systems - Coating

Property	Units	Specification	Harmonized Standard
CO_2 permeability	m	152	EN 1504-2 : 2004
Water vapour permeability	m	2.9	
Capillary absorption & permeability to water	$Kg/m^2.h^{0.5}$	0.02	
Adhesion strength by pull-off test	N/mm^2	2.3	
Reaction to fire		Euroclass F	
Dangerous substances		does not contain	

For more information on Hygrosmart range of products and application methods
Please contact Alchimica Technical Service at **info@alchimica.co.in**

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CE 25 YEARS EXPECTED WORKING LIFE

ISO 9001
ISO 14001
OHSAS 18001
BUREAU VERITAS Certification