HYGROSMART®-IMPER-C-2K-FLEX

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.

Apply with trowel, brush or roller in two coats of thickness 1.0-2.0 mm each.

COMPLIANCE-CERTIFICATION

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

It has also been tested regarding its **V.O.C.** emissions and complies with "***Indoor Air Comfort 9.0***" (2023), "***Belgian Regulation***" (2014), "***EU Taxonomy***" (2020), "***B.R.E.E.A.M. International***" v6.0 (2021), "***B.R.E.E.A.M. NOR***" v6.1.1 (2024), "***Italian CAM Edilizia***" (2022), "***French V.O.C. Regulation***" (2011-2012) and "***French C.M.R. Components***" (2009) regulations / protocols.

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

LIMITATIONS

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

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.

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**.

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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.

CONSUMPTION

Minimum consumption: 1,7 kg/m^2 per 1mm thickness. Coat thickness of 1.0-2.0mm.

PACKAGING

Mortar: 25 kg.
Resin: 8 kg.
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 ºC.

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
Bulk density component A	kg/l	1,45
Density component B	kg/l	1,02
Density of mix A+B	kg/l	1,72
Adhesion	N/mm^2	> 2,0

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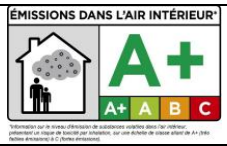
CE
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ALCHIMICA S.A. 7 Lampsakou, Athens - GREECE
2928-CPR-55
EN 1504-02:2004 2928 HYGROSMART IMPER-C-2K-FLEX Concrete surface protection systems - Coating
www.alchimica.com

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	

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V.O.C. Emission Results of HYGROSMART-IMPER-C-2K-FLEX, based on "Indoor Air Comfort 9.0" (2023), "Belgian Regulation (2014)", "EU Taxonomy (2020)", "B.R.E.E.A.M. International v6.0 (2021)" and "B.R.E.E.A.M. NOR v6.1.1 (2024)", "Italian CAM Edilizia (2022)", "French V.O.C. Regulation (2011-2012)" and "French C.M.R. Components (2009)" regulations / protocols

Brief Evaluation of Results

Regulation or Protocol	Conclusion	Version of Regulation or Protocol
Indoor Air Comfort	**Pass**	Indoor Air Comfort 9.0 (6/2023)
Belgian Regulation	**Pass**	Royal decree (5/2014, C-2014/24239)
EU Taxonomy	**Pass**	Regulation (EU) 2020/852 of the European Parliament and of the Council
B.R.E.E.A.M. International	**Exemplary Level**	B.R.E.E.A.M. International New Construction v6.0 (2021)
B.R.E.E.A.M. NOR	**Exemplary Level**	B.R.E.E.A.M. NOR v6.1.1 New Construction (2024)
Italian CAM Edilizia	**Pass**	Regulation 23 June 2022, decree 6 August 2022
French V.O.C. Regulation		Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 (DEVL1133129A)
French C.M.R. Components	**Pass**	Regulation of April and May 2009 (DEVP0908633A and DEV0910046A)

Tests refer to a sample consisting of 800 gr of mortar material and 260 gr water (3mm thick layer)

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