

HYGROSMART®-IMPER-C-2K-ELASTIC SUPERFAST

Two-Component, Rapid-Drying, Highly Flexible Cementitious Membrane for Waterproofing in all Climatic Conditions.

DESCRIPTION

HYGROSMART®-IMPER-C-2K-ELASTIC

SUPERFAST is a two-component, rapid-drying, waterproofing membrane based on cementitious binders, special synthetic polymer emulsions, fine-grained aggregates and high technology additives.

This innovative product allows waterproofing works to be performed in severe climatic conditions without sacrificing speed. This property is achieved by a **self-drying** mechanism where a special mixture of polymers has been developed to speed up the drying time of the membrane. This allows the membrane to fully dry even at 95% relative humidity and/or 5°C where the evaporation of water is minimal.

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 14891:2012** (type CM 01P)

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 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.

FEATURES & BENEFITS

- Completely waterproof.
- Tiling after 90 minutes.
- Waterproofed after 4 hours.
- Rapid setting even at low temperatures and/or humid environments.
- 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.

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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** or **HYGROSMART®- FIX & FINISH**.

Priming:

Simply dampen the substrate with water.

Mixing:

The powder is added gradually to the resin 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 after 30-60 minutes. Pot life is approximately **45'**.

CONSUMPTION

Minimum consumption: 1.2-1.4 kg/m² per 1mm thickness. Coat thickness of 1.0-2.0mm.

PACKAGING

Mortar: 20 kg, 5 kg

Resin: 10 kg, 2.5 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 °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

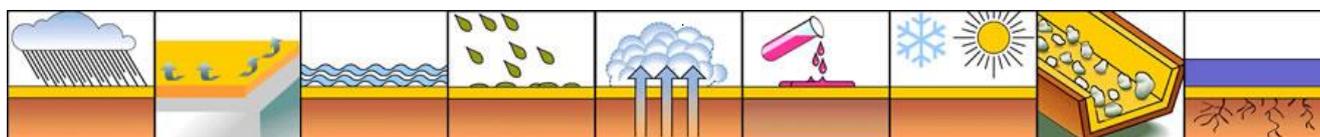
| PROPERTY | UNITS | SPECIFICATION |
|---------------------|-------|---------------|
| Density component A | kg/l | 1.4 |
| Density component B | kg/l | 1.02 |
| Density of mix A+B | kg/l | 1.3 |
| pH | - | 10-11 |

HYGROSMART®-IMPER-C-2K-ELASTIC SUPERFAST

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| ALCHIMICA S.A. 7 Lampsakou, Athens - GREECE |
| 1020-CPR-020050842 |
| EN 14891:2012 1020 HYGROSMART IMPER-C-2K-ELASTIC SUPERFAST Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives www.alchimica.com |

| Essential characteristics | Performance | Requirement | Harmonized technical specification |
|---|------------------------|------------------------|------------------------------------|
| Water tightness | No penetration | No penetration | EN 14891:2012 |
| Crack bridging ability under standard conditions (23°C) | 1.09 mm | ≥0.75 mm | |
| Crack bridging ability at low temperatures (-5°C) | 1.04 mm | ≥0.75 mm | |
| Initial bond strength | 0.95 N/mm ² | ≥0.5 N/mm ² | |
| Bond strength after water immersion | 0.78 N/mm ² | ≥0.5 N/mm ² | |
| Bond strength after heat ageing | 0.89 N/mm ² | ≥0.5 N/mm ² | |
| Bond strength after freeze-thaw cycles | 0.62 N/mm ² | ≥0.5 N/mm ² | |
| Bond strength after contact with lime water | 0.83 N/mm ² | ≥0.5 N/mm ² | |
| Bond strength after contact with chlorinated water | 0.97 N/mm ² | ≥0.5 N/mm ² | |

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