

HYGROSMART® – BUILDING F

One-Component, Fiber Reinforced, Quick-Setting, Cementitious Repair Mortar

DESCRIPTION

HYGROSMART®-BUILDING-F is a high technology, one component, fiber reinforced, cementitious repair mortar. The material displays excellent mechanical properties combined with easy workability and quick application in horizontal, vertical or overhead applications. **HYGROSMART®-BUILDING-F** has excellent adhesion and may be applied in thick coats without cracking.

COMPLIANCE-CERTIFICATION

CE certified as **Class R3** repair mortar according to European Standard **EN 1504-03**. See below table.

RECOMMENDED FOR

- General concrete repair
- Repair of concrete damaged reinforcement steel exposed in acidic environments and/or seawater
- Concrete carbonization
- Roof gutters formation
- Blockwork, plasters and renders repairs
- Surface smoothing

LIMITATIONS

HYGROSMART®-BUILDING-F can be applied at temperatures above 5°C and at a maximum temperature of 35 °C.

FEATURES AND BENEFITS

- Easy application
- Long pot life
- Excellent adhesion to building materials
- Quick setting
- High strength

Certified quality, environmental and occupational health & safety management systems:
ISO 9001/14001 & ISO 45001.

- Paintable a few hours after application.
- Shrinkage compensated

APPLICATION

Substrate Preparation:

Clean the surface, using jet water if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membranes must be removed.

Any exposed reinforcement steel should be cleaned well from rust and treated with special anticorrosive mortar or anticorrosive coating.

PREPARATION / APPLICATION OF MORTAR

HYGROSMART®-BUILDING-F (25 Kg) is gradually added under mechanical mixing to 4,5-5 Kg water until desired consistency is achieved. Let the mix still for almost 5 min and stir again.

The substrate is dampened prior to application and the material is applied by trowel in one or more coats. Each successive coat may be applied at a thickness of 20mm. Mix pot life in the pail is almost 90 min. As soon as the hardening process begins, the material may be sanded in order to enhance the bonding of the second coat (sanding can be done with a chock of EPS, sponge or trowel depending on the final surface we need to achieve).

When the product is applied under high temperatures or dry wind, we keep it wet by sprinkling with water. The applied product should be protected from rain or frost for at least 10 hours. Application temperature should be between 5°C and 35°C.

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CONSUMPTION

1,7 Kg/m²/mm thickness.

PACKAGING

25 kg Bags. **Color:** Grey

CLEANING

Clean brushes and tools with plenty of water after use. Hardened material can only be removed by mechanical means.

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.

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TECHNICAL SPECIFICATIONS

 2001	
ALCHIMICA S.A. Oryzomylon 13, Aigaleo - GREECE	
15 DoP CPR-4791 EN 1504-03 HYGROSMART- BUILDING F Concrete repair product for structural repair (CC) mortar R3, class III	
Compressive strength	26 MPa (R3)
Water-soluble chlorides content	<0.05 %
Adhesion strength	>1.5 MPa
Carbonation resistance	Pass
Elastic modulus	17.2 GPa
Thermal compatibility Part 1, Freeze-Thaw cycles	1.7 MPa
Capillarity water absorption	0,34 Kg/m ² .h ^{0.5}
Slip resistance	58 PTV (Class III)
Dangerous substances	As per 5.4
Fire reaction	Class A1

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