

HYGROSMART® –S-10

Fiber Reinforced, Semi Quick-Setting, One Layer Plaster

DESCRIPTION

HYGROSMART®-S-10 is a high technology, one component repair mortar, fiber reinforced and specially modified in order to achieve high strengths with easy application and excellent workability. Ideal for repairs of blockwork and plasters as well as plasters creation. Also ideal as plaster in façade thermal insulation systems.

The material displays excellent mechanical properties combined with easy workability and quick application in horizontal or vertical applications. **HYGROSMART®-S-10** has excellent adhesion and may be applied in thick coats of one layer without cracking.

COMPLIANCE-CERTIFICATION

CE certified as **Class CSIV** general-purpose repair mortar according to European Standard **EN 998-1**.

RECOMMENDED FOR

- Construction and repair of plasters/renders
- Repair of blockwork
- Construction of façade thermal insulation systems.

LIMITATIONS

HYGROSMART®-S-10 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 strengths
- Paintable 48 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, mold release agents, curing membranes must be removed.

Mixing-Application:

HYGROSMART®-S-10 (25 Kg) is gradually added under mechanical mixing to 5-6 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 20 mm. 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 24 hours. Application temperature should be between 5°C and 35°C.

CONSUMPTION

1,55 Kg/m²/mm thickness.

PACKAGING

25 kg bags. **Color:** White

HYGROSMART[®] -S-10

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

HYGROSMART[®]-S-10 contains cement and is therefore irritating. Please use protective equipment and clothing during application.

TECHNICAL SPECIFICATIONS

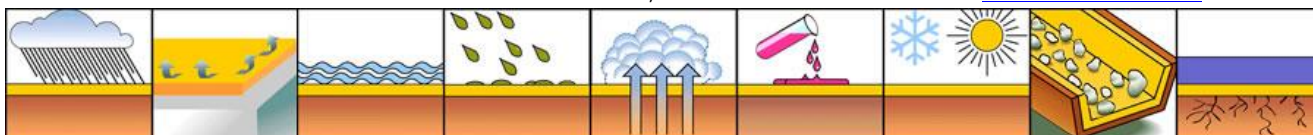
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ALCHIMICA S.A. Oryzomylon 13, Aigaleo - GREECE
15 DoP CPR-4792
EN 998-01 HYGROSMART -S-10 General purpose mortar (GP) CSIV

HYGROSMART® –S-10

PROPERTY	UNIT	SPECIFICATION
Determination of wet mortar cohesion with spreading table	mm	175
Density of dry mortar	Kg/m ³	1550
Bending strength	N/mm ²	3
Compression strength	N/mm ²	8.7 (CSIV)
Adhesion to concrete	N/mm ²	0,8
Thermal conductivity factor ($\lambda_{10, dry}$) (P=50%)	w/mk	0.57
Capillarity water absorption	Kg/(m ² min ^{0.5})	0,7 (W0)
Water-vapour diffusion factor (μ)		< 14
Water-soluble chlorides content	%	< 0,04
Resistance to fire		Class A1
Resistance (freeze/thaw cycles)		NPD Evaluation is based on the provisions valid at the intended place of mortar use

PROPERTY	UNIT	SPECIFICATION
Density of wet mortar	Kg/lt	2.0 ±0.1
Water requirement	%	22
Pot life in the pail	Min	90 (20°C)
Max application thickness in 1 layer	mm	20

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

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