LAVA PROOF

HYBRID POLYURETHANE WATER-THERMAL INSULATION MATERIAL WITH LATEST TECHNOLOGY MICROSPHERES

ISL/10 | INSULATING – WATERPROOFING MATERIALS

DESCRIPTION

LAVA PROOF is a hybrid insulation material, based on polyurethane-acrylic resin and microspheres, with the ability of forming a very elastic membrane that protects the surface from humidity and severe weather conditions. The microspheres that it contains assist in increasing the UV ray reflection and prevent the contraction of the material. Additionally, the membrane that is formed has a low thermal conductivity coefficient, resulting in preventing heat from penetrating the house's shell. It has high resistance in UV rays, due to its high reflectivity and its excellent adhesive capabilities. It does not deteriorate in stagnant water because it contains polyurethane resin.

DIRECTIONS FOR USE

- The surface that the material will be applied on must be free from dust and grease,in order to ensure better adhesion of the product on the surface.
- It is recommended to start by applying NEOCHROM's NEOSTRONG PRIMER, followed by 3 coats of undiluted LAVA PROOF.
- If NEOSTRONG PRIMER is not applied, then dilute the first coat with 50% water, followed by the other two, three coats without dilution.
- Apply with a brush, a paint roller or an airbrush. Stir well before use.

COVERAGE

3-4m^2 /lt depending on the nature of the surface

STORAGE

Up to 12 months protected from direct sunlight and low temperatures.

TECHNICAL SPECIFICATIONS	
Colour:	White and a large range of made to order colours
Dilution:	NO DILUTION (if preceded by NEOCHROM'S NEOSTRONG PRIMER)
Reapplication time:	4-5 hours at 25°C temperature
Density:	1,00kg/lt
High mechanical properties	✓
No formation of cracks during the curing process of the material	✓
Easy to apply	✓
Wide operating temperature range	From -20°C to +80°C
Elasticity at 25°C:	1200%
Complete drying time:	48 hours at 25°C
Reapplication time:	6-8 hours at 20°C temperature
Patency:	After 120 hours
Estimated lifetime:	20 years, presuming that it is maintained every 4 years.

PACKAGING:

2.5, 5, 10 AND 18L PLASTIC CONTAINERS

ΣΧΕΤΙΚΟ : Δοκιμή No. 88

ΣΧΟΛΙΟ

Στην Έκθεση Δοκιμών No. 88-2 υπολογίζεται η θερμική αντίσταση του ακρυλικού χρώματος R_{color}. Από την τιμή της θερμικής αντίστασης υπολογίζεται η τιμή του συντελεστή θερμικής αγωγιμότητας του χρώματος από τη σχέση:

$$\lambda_{color} = d_{color} / R_{color}$$

Με εφαρμογή της παραπάνω σχέσης στα αποτελέσματα της Δοκιμής 88-2, έχουμε για τον συντελεστή θερμικής αγωγιμότητας της βαφής με εμπορικό τίτλο «**Lava Proof**»:

$$\lambda_{color} = 1{,}13 \cdot 10^{-3} / 0{,}0071 \Rightarrow \mathbf{\lambda_{color} = 0{,}159\ W/(mK)}$$

Ο ΣΥΝΤΑΞΑΣ

Λ. Αναστασοπούλου