Domissima BUILT BY EXPERTS

Low VOC

Domoreflect Color Elastic

Elastomer insulating fiber-reinforced high quality paint

DOMOREFLECT COLOR ELASTIC is a fiber-reinforced paint, suitable for covering microcracks and capillaries and to prevent their recurrence, due to its high elasticity, even in extreme weather conditions. It also establishes a waterproof membrane of high reflectivity, which insulates and protects from rain and moisture.

Field of application

DOMOREFLECT COLOR ELASTIC is applied on exterior surfaces as:

- Old and new buildings
- Traditional architecture buildings
- Buildings near the sea
- Northern walls
- All building materials (mortar, concrete, brick, stone, ceramic, tile, plasterboard, etc.)

And on interior surfaces as:

- Any new or old surface
- Places where frequent cleaning and high mechanical strength is required as offices, children's rooms, kitchens, bathrooms, corridors, schools, garages, hospitals, industrial and public buildings

Advantages

- Waterproofing.
- Excellent weather resistance.
- Fiber reinforced.
- Excellent coverage.
- Highly reflective.
- Resistant in UV radiation.
- Elastic, bridges cracks.
- Vapor permeable.
- Prevents carbonation of concrete.
- Blocks adhesion of air pollutants (exhaust gases, industrial pollutants, acid deposition, salt etc.) on the paint, resulting to be flushed with the next rain. Thus the appearance of the building remains unchanged.
- Eco-friendly.
- Washable even with strong friction stress without any local tarnishing.

Method of use

Substrate condition:

Clean the substrate of any loose pieces, as well as peeled off paints and oils.

New surfaces require priming with DOMOREFLECT PRIMER, or in special cases (eg loose substrates) DOMORESIN SP mix with water, in a ratio

DOMORESIN SP:WATER 1:4-6 w/w.

Application:

1st layer: DOMOREFLECT COLOR ELASTIC diluted with water 5% v/v.

2nd layer: DOMOREFLECT COLOR ELASTIC as it is.

Apply with a roll, brush or airless.

Yield

8-10 m^2/L per layer depending on the nature of the substrate.

Storage

Can be stored for at least 24 months from production date in the original pail, in a cool environment protected from frost and direct sunlight.

Packaging

Pails of 1 L, 3 L & 10 L.

Colors

Available in white and bases D (semi-transparent) and TR (transparent). Other colors available on request.

Carbonization

The carbon dioxide (CO_2) that penetrates the concrete, reacts with the carbon hydroxide ($Ca(OH)_2$) of the cement. This reaction is called carbonization.

Carbonization impairs the alkaline protection that concrete provides to the reinforcement. As a result, the reinforcement starts to rust and expand thus creating fragments and fissures in the concrete body. This accelerates further the process of the corrosion of the steel reinforcement, by enabling factors like humidity, oxygen and acids to penetrate more effectively.

DOMOREFLECT COLOR ELASTIC is a high quality, flexible resistant barrier against all chemical combinations that cause the carbonization of concrete.

Volatile Organic Compounds (VOC)

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category c / Type WB) is 40 g/L (limits of 2010) for the final product. The final DOMOREFLECT COLOR ELASTIC contains max <40 g/L.

Specifications

Form	Liquid
Shading	White, Bases D and TR
Specific weight	1.36 ± 0.04 kg/L (23ºC)
Viscosity	10000-20000 cP (23ºC)
pH	8-9
Application temperature	+5ºC to +35ºC
Dried on touch	1 hour
Recoating	4-6 hours
Emission coefficient (ASTM E408)**	0.886
Solar Reflectance Index - SRI (ASTM E1980)*	111
Maximum tensile stress (EN ISO 527-3)	>2.5 MPa
Elongation at break (EN ISO 527-3)	>200%
Elastic modulus (EN ISO 527-3)	>4.0 MPa
Adhesive strength (EN 1542)	2.0 N/mm^2

* Energy Testing Laboratory of KAPE

** Solar and Energy Systems Laboratory of the National Nuclear Center “Demokritos”