

Domissima

BUILT
BY
EXPERTS



Domoreflex Ultra Hybrid

Hybrid technology waterproofing coating for bituminous membranes and cement-based roof surfaces

DOMOREFLECT ULTRA HYBRID is a new generation hybrid, elastomeric, environmentally friendly waterproofing coating. Due to its high reflectivity, it acts as a solar energy barrier during the summer months, keeping the building interior cool and decreasing thus the energy consumption required for cooling.

Field of application

DOMOREFLECT ULTRA HYBRID is suitable for application on:

- Bituminous membranes with or without slates and with aluminum covering
- Flat or inclined roofs
- Local waterproofing of cracks & difficult spots
- Ventilation ducts, chimneys
- All structural materials (mortar, concrete, brick, stone, ceramic tiles, metal, etc.)
- Old waterproofing layers (acrylic, polyurethanic, etc.), provided that the surface has been cleaned mechanically
- Roofs with installed equipment (solar panels, air conditions, etc.)

Advantages

- Creates a fully waterproof elastomeric membrane, highly resistant to stagnant water.
- Water vapor permeable, allows the substrate to transpire.
- High resistance to extreme temperature fluctuations. (-30°C to +90°C).
- High coverage.
- Resistant to UV radiation.
- High reflectivity.
- Can be applied also on uneven substrates.
- Excellent adhesion.
- Bridges hairline cracks.
- Easy to apply even in difficult spots.
- Easy to wash, does not retain dust or dirt.

Method of use

Substrate condition:

Clean the substrate from any loose pieces, as well as peeled off paints and oils. The substrate must be free of moisture and standing water.

Prime with acrylic water-based DOMOREFLECT PRIMER or with DOMOREFLECT ULTRA HYBRID diluted 10% w/w with water depending on the nature of the substrate. In case of particularly loose substrates, prime the surface with DOMORESIN diluted with water at a ratio of 1 to 3.

Application:

2-3 layers: DOMOREFLECT ULTRA HYBRID undiluted.

Apply with a roll, brush or airless.

Each layer is applied crosswise after the previous has been fully dried (after 8-12 hours depending on the ambient temperature).

In places with cracks apply polyester cloth tape as reinforcement. In this case, apply the primer and when it is fully dry spread one layer of DOMOREFLECT ULTRA HYBRID. Then apply the reinforcement tape along the cracks, while the material is still wet and then apply another two successive layers of DOMOREFLECT ULTRA HYBRID.

On surfaces with many dense cracks, it is recommended to fully reinforce the surface using polyester cloth in a width of 1 m.

Additional information:

- All tools and application equipment must be cleaned thoroughly and immediately after their use with plenty of water.

Consumption

150-200 g/m² as primer.

650-800 g/m² for two layers on primed bituminous membranes with slate.

450-600 g/m² for two layers on primed cement surfaces.

650-800 g/m² for three layers for crack waterproofing depending on the nature of the substrate and the reinforcement.

Storage

Can be stored for at least 12 months from production date in the original pail, in a cool environment protected from frost and direct sunlight.

Packaging

Pails of 1 kg, 5 kg & 15 kg.

Colors

White, tile red and aluminum.

Other colors available on request.

Saving energy

Due to the high reflectivity and emission values of the product (see technical specifications), the temperature of the surface where DOMOREFLECT ULTRA HYBRID has been applied is considerably lower during the summer months. A roof covered with bituminous membrane can reach a temperature up to 80°C. The same roof after applying DOMOREFLECT ULTRA HYBRID shows a temperature up to 50% lower (40°C). That results in a substantial energy cost saving for cooling.

Certificates

The product is certified according to EN 1504-2 (concrete surface protection systems), in categories 1.3-Ingress Protection (IP), 2.2-Moisture Control (MC) and 8.2-Increased Resistance (IR).

Volatile Organic Compounds

EU REGULATION 2004/42: According to Directive 2004/42/EU (Annex II, Table A), the maximum allowed content of VOC (Product Category i / Type WB) is 140 g/L (limits of 2010) for the final product. The final DOMOREFLECT ULTRA HYBRID contains max <140 g/L.

Specifications

Form	Liquid
Colors	White, Tile red, Aluminum
Specific weight	1.30 ± 0.04 kg/L (23°C)
Application temperature	+5°C to +35°C
Dried on touch	2-3 hours
Recoating	8-12 hours
Walkability	24 hours
Emission coefficient (ASTM E408)**	0.893
Solar Reflectance Index - SRI (ASTM E1980)*	110
Maximum tensile stress (EN ISO 527-3)	>1.8 MPa
Elongation at break (EN ISO 527-3)	>350%
Elastic modulus (EN ISO 527-3)	>1.0 MPa
CO ₂ diffusion (EN 1062-6)	155 m
Water vapor permeability (EN ISO 7783)	0.46 m (Class I)
Capillary water absorption (EN 1062-3)	0.06 kg/m ² h ^{0.5}
Adhesive strength (EN 1542)	2.1 N/mm ²
Characterization EN 1504-2	Ingress Protection - Moisture Control - Increasing Resistivity

* Energy Testing Laboratory of KAPE

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

All the technical data stated in the present Technical Data Sheet are based on laboratory tests and the knowledge and experience of the company. Different conditions may apply at field applications that are beyond the control of the company. Therefore, the end user is ultimately responsible to make sure that the product is suitable for the application in question and to know the real conditions of the project.