

Domoreflex 122 Max

High Performance waterproofing coating membrane

Description: DOMOREFLECT 122 MAX is a roof coating membrane based on a combination of solvent free high concentration aliphatic polyurethane and new generation nanomolecular hybrid resins. It stands out for its short drying time, enabling thus the applied surface to remain completely unaffected by upcoming rain and stagnant water, as well as its maximum dry film thickness. It creates a single membrane of exceptional whiteness which maintains its elasticity even in high temperature changes ensuring high resistance to ageing.

Application fields

DOMOREFLECT 122 Max may be applied on

- Flat or inclined roofs
- Parapets
- Gutters, gypsum boards, etc.

Advantages

- Fast drying & walkability (**250 m² terrace** waterproofing with primer application and 2 layers of DOMOREFLECT 122 Max, can be completed **in one day**, even with relative environmental humidity up to 80%)
- Resistant to upcoming rain (1 hr 30 min from its application) and stagnant water
- High dry film thickness → **0,75 mm**
- Finished surface remains **tack free**, so it does not collect dirt and dust
- High whiteness & excellent reflectivity of solar radiation
- Resistance to ageing → **10 years guarantee**
- Easy to apply
- Excellent adhesion
- Water vapor permeability
- **Fiber Reinforced** - Crack bridging with or without the use of polyester reinforcement (geotextile).
- Solvent-free, user friendly and environmentally friendly

Method of Use

Substrate preparation:

Clean the substrate thoroughly from loose materials, peeled paints, dust and oils. The substrate

must be free of surface and rising moisture and of stagnant water.

Apply DOMOREFLECT 122 Max diluted 10% by weight with water. In case of unstable substrates, it is recommended to prime the surface with epoxy primer Serital W Primer diluted 10% by weight with water.

Application:

2-3 layers of DOMOREFLECT 122 Max applied with roller, brush or airless. Each layer is applied crosswise to the previous one as soon as the previous layer is dry (depending on weather conditions). **Maximum consumption for a wet layer is 1,4-1,5 kg/m².**

Apply polyester fiber reinforcement over areas with cracks. In this case, apply primer and once dry, a layer of DOMOREFLECT 122 Max. Then place the reinforcement strip along the cracks as long as the material is still wet and finish with two more successive layers of DOMOREFLECT 122 Max.

On surfaces with a lot of dense cracks, it is proposed to completely reinforce the surface with a polyester cloth of 60-70 gr/m² or fiberglass of 225-300 gr/m² and 1m width.

Additional notes:

- All application tools and accessories should be thoroughly cleaned with water immediately after use.
- High temperatures accelerate and low temperatures slow down the drying process of the applied film.
- Application temperatures from 5 ° C to 35 ° C. Do not

apply the product when rain or frost is imminent

Consumption

150-250 gr/m² as 1st layer diluted 10% by weight with water

1,3-1,5 kgr/m² for 2 layers

1,7-2,0 kgr/m² for 2-3 layers with reinforcement

Storage

At least 12 months from production date, stored in the original sealed pails under dry and cool conditions, protected from direct sun exposure and frost.

Packaging

Pails of 1 kg, 5 kg and 15 kg.

Colors

Available in white. Other colors available on request.

Certificates

Certified according to EN 1504-2 (Concrete Protection Systems) in categories 1.3- Ingress Protection (IP), 2.2- Moisture Control (MC) and 8.2-Increasing Resistivity (IR).

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 j / Type WB) is 140 g/L (limits of 2010) for the final product. The final DOMOREFLECT 122 MAX contains max <140 g/L.

Specifications

Form	Thick liquid
Color	White
Specific weight (23°C)	1,45 ± 0,04 kg/L
Application temperature	+5°C to +35°C
Final dry film thickness for 1 mm of liquid film and a consumption of 1,4 kg/m² (EN ISO 2808)	0,75mm
Dry-to-touch (23°C) (1 mm wet film thickness on glass) (ASTM D 1640-03)	90 min
Unaffected by rain (23°C) (In-house test)	in 1h 30 min
Maximum tensile strength (EN ISO 527-3)	>2,0 MPa
Elongation at break (EN ISO 527-3)	275 %
Elastic modulus (EN ISO 527-3)	7,9 MPa
Permeability to CO ₂ , s _d (EN 1062-6)	>50 m
Water vapor permeability, s _d (EN ISO 7783)	<5 m (Class I)
Capillary water absorption (EN 1062-3)	< 0,1 kg/m ² h ^{0.5}
Adhesion strength (EN 1542)	≥ 2,5 N/mm ²
EN 1504-2 categories	Ingress Protection - Moisture Control - Increasing Resistivity

Domorelect 122 Max drying times in relation to the temperature of the environment (application on terraces)

Drying times	Terrace		
	10-12°C (Envir. Humidity 60%)	16-18°C (Envir. Humidity . 80%)	28-30°C (Envir. Humidity . 40%)
1 st layer **	20 min	15 min	5 min
2 nd layer	1 hour & 30 min*	1 hour & 30 min*	20 min*
Total time***	1 hour & 50 min	1 hour & 45 min	25 min
3 rd layer	1 hour & 30 min*	2 hours & 15 min*	20 min*
* unaffected by rain			

** Domorelect 122 Max diluted with water up to 10% w/w.

*** Total time before the application of the last layer on a terrace

**Artificial aging of Domorelect 122 Max according to EN 1297
(exposure to UV radiation and humidity)**

Tests	Units	EN	Results
Impact Resistance Test (UV aging and humidity) - at normal conditions - after 1000 hrs of UV aging - after 2000 hrs of UV aging	N.m	BDS EN ISO 6272-1:2011	10 10 10
Abrasion Resistance – Taber method (1000 cycles) (UV aging and humidity) - at normal conditions - after 1000 hrs of UV aging - after 2000 hrs of UV aging	mg	BDS EN ISO 5470-1:2017	0,19 0,23 0,25
Shore A Hardness (UV aging and humidity) - at normal conditions - after 1000 hrs of UV aging - after 2000 hrs of UV aging	Sh A	BDS EN ISO 868:2006	75 76 76
Degree of blistering, cracking and flaking after storage at elevated temperature(**)	-	BDS EN ISO 4628-2, 4628-4, 4628-5:2016	No traces of blistering, cracking and flaking are observed
Degree of blistering, cracking and flaking after storage in water(***)	-	BDS EN ISO 4628-2, 4628-4, 4628-5:2016	No traces of blistering, cracking and flaking are observed

(**) 7 days at 70°C

(***) 3 cycles of 24 hrs in water of 23°C and 24 hrs in 50°C for drying

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.

