

DESMOFLEX TOP COAT

Aliphatic Polyurethane Top-Coat, UV-stable (2K)

DESCRIPTION

DESMOFLEX TOP COAT polyurethane, is a two-component coating (Component A+B) with unaffected whiteness and gloss, suitable for the long-term protection of roofs, rooms, balconies and asphalt, EPDM or

PVC membranes that have been prior sealed with **DESMOFLEX PU**. It provides excellent mechanical, thermal, chemical and UV resistance as well as protection against frost and chalk.

APPLICATION FIELDS

- Waterproofing of Roofs
- Waterproofing of balconies, terraces and verandas
- Waterproofing of pedestrian decks and walkways
- Protection of polyurethane foam insulation

Used over the **DESMOFLEX PU** on surfaces, with domestic pedestrian traffic (e.g. Roofs, Terraces, Residential Walkways) that require a glossy, color-stable and non-chalking finish.

ADVANTAGES

- Increases the abrasion and wear resistance of the waterproofing membrane underneath.
- UV and Color stable.
- Does not show the chalking effect of aromatic polyurethane coatings
- Gives a glossy and easy-to-clean surface.
- Resistant to water, heat.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Frost resistant
- The waterproofed surface can be walked on (domestic pedestrian traffic).
- Is supplied in white color. Other RAL colors may be supplied on demand

SUBSTRATE PREPARATION

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days.

Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed.

APPLICATION

WARNING: Do not wash surface with water!

After approx. 6-12 hours (not later than 24 hours) and while the **DESMOFLEX EPOXY PRIMER** is still a bit tacky, apply the polyurethane coating **DESMOFLEX PU**. Pour enough of **DESMOFLEX PU** onto the prepared and primed surface and lay out by roller or brush. Continue with the same way till the surface for waterproofing is fully covered.

After 12 hours (till 48 hours), apply another layer of **DESMOFLEX PU**. For bigger surfaces, apply a third layer of the product.

High humidity may affect the final finish. 12-24 hours after the last application layer of **DESMOFLEX PU** apply the **DESMOFLEX TOP COAT** by roller or airless spray in one or two layers. Allow 5-12 hours (not more than 36 hours) to apply the second layer.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speeds up curing.

CONSUMPTION

120-250gr/m² per layer.

Applied in one or two layers.

PACKAGING - STORAGE

DESMOFLEX TOP COAT (A+B component) is supplied in 5 kg, metal pails. Pails should be stored in dry and cool rooms for up to 36 months. Protect the material against moisture and direct sunlight.

Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Technical Support Lines 800 100 14 14 info@thrakon.gr • www.thrakon.gr

PRECAUTIONS

See information supplied by the manufacturer. Please study the Safety Data sheet. PROFESSIONAL USE ONLY

TECHNICAL DATA

TECHNICAL CHARACTERISTICS	UNITS	STANDARD
Composition	2 component Aliphatic Pigmented Polyurethane	
Resistance to Water Pressure	No Leak	EN 1928
Elongation at break	300 %	EN ISO 527
Tensile strength	4,5N/mm ²	EN ISO 527
Capillary absorption (EN 1062-3, requirement of EN 1504-2: w < 0.1)	0.01 kg/m ² ·h ^{0.5}	EN 1504-2
Tensile strength after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	2,68 N/mm ²	DIN EN ISO 527
Water vapor permeability: (EN ISO 7783-2, permeable, Class I < 5m)	Sd=0.72m	EN 1504-2:
Surface chalking after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	No chalking observed. Chalking grade 0	DIN EN ISO 4628-6
Adhesion	> 2 N/mm ²	ASTM D 903
Hardness (Shore A Scale)	75	ASTM D 2240 (15'')
CO ₂ permeability Sd > 50m	180	EN 1504-2
Artificial weathering (EN 1062-11, after 2000h)	Pass (no blistering, flaking)	EN 1504-2
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-40°C to +90°C	Inhouse Lab
Final Curing time	7 days	Conditions: 20°C, 50% RH
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

Note: The measurements were made in laboratory environment under temperature of +23°C, Relative Humidity 50 % and without ventilation. It is possible to vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation, absorbability of the substrate.

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and of the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.