DESMOFLEX® TOP COAT

2-component polyurethane coating with high whiteness and glossiness



DESMOFLEX TOP COAT is a two-component, polyurethane 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 already been coated with DESMOFLEX POLYURETHANE. It provides excellent mechanical, thermal, chemical and UV resistance as well as protection against frost and natural chalking.

Advantages:

- Increases the abrasion and wear resistance of the waterproofing membrane underneath.
- UV and color stable.
- Hides the chalking effect of aromatic polyurethane coatings.
- Glossy and easy-to-clean surface.
- Resistant to water and heat.
- Maintains its mechanical properties over a temperature span of -30ºC to 90ºC.
- Frost resistant.
- Walkable final surface (domestic pedestrian traffic).
- Supplied in white color. Other RAL colors may be supplied on demand.

TECHNICAL CHARACTERISTICS

Packaging:

Double metal container
• 5 kg

Consumption:

~ 120-250 gr/m^2 applied in one layer.

Shade:

White glossy.

Storage:

The containers should be stored in dry and cool environments at temperatures between 5ºC and 30ºC for 12 months. Protect the material against moisture and direct sunlight. Products should remain in their original, unopened containers, bearing the manufacturer's name, product designation, batch number and application precaution labels.

Application:

Polyurethane waterproofing coating. Used as a coating to DESMOFLEX POLYURETHANE.

FIELDS OF APPLICATION

DESMOFLEX TOP COAT is used as a protective finishing over polyurethane waterproofing materials on:

- Roofs
- Balconies, terraces and verandas
- Pedestrian decks and walkways
- Polyurethane foam insulations

Used over DESMOFLEX POLYURETHANE on surfaces with domestic pedestrian traffic (eg roofs, terraces, residential walkways) that require a glossy, color-stable and non-chalking finish.

SUBSTRATE PREPARATION

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

APPLICATION

Do not wash the surface with water. After approximately 6-12 hours (and not later than 24 hours) and while the DESMOFLEX EPOXY PRIMER is still tacky, apply the polyurethane coating DESMOFLEX POLYURETHANE. Pour enough of DESMOFLEX POLYURETHANE onto the prepared and primed surface and lay out by roller or brush. Continue with the same way until the surface for waterproofing is fully covered. After 12 hours (and not later than 48 hours), apply another layer of DESMOFLEX POLYURETHANE. For bigger surfaces, apply a third layer of the product. High humidity may affect the final finish. 12-14 hours after the last application layer of DESMOFLEX POLYURETHANE, apply the DESMOFLEX TOP COAT by roller or airless spray in one or two layers. Allow 5-12 hours (and no more than 48 hours) to apply the second layer. For optimum results, the temperature during application and curing should be between 5^{o}C and 35^{o}C. Low temperatures prolong curing times while high temperatures shorten it.

PRECAUTIONS

For information regarding safe use, storage and disposal of the product, read carefully the information on the label and on the most recent Material Safety Data Sheet (MSDS) of the product, which is available to professionals upon request.
Leftovers and product wastes should not be disposed of with household waste. Please ask for the advice of local authorities regarding the proper disposal and collection of waste.

Technical Characteristics	Units	Standard	Value
Composition			Aliphatic pigmented polyurethane
Resistance to water pressure		EN 1928	No leak
Elongation at break	%	EN ISO 527	300
Tensile strength	N/mm^2	EN ISO 527	4,5
Capillary absorption (EN1062-3, requirement of EN 1504-2: w<0,1)	$Kg/m^2h^{0.5}$	EN1504-2	0,01
Tensile strength after 2000h of accelerated aging	N/mm^2	DIN EN ISO 527	2,68
Water vapor permeability, S_d	M	EN 1504-2	0,72
Surface chalking after 2000h of accelerated aging		DIN EN ISO 4628-6	No chalking observed, grade 0
Adhesion	N/mm^2	ASTM D 903	>2
Hardness (Shore A scale)		ASTM D 2240 (15")	75
CO_2 permeability, S_d>50m		EN 1504-2	180
Artificial weathering (EN 1062-11, after 2000h)		EN 1504-2	Pass (no blistering, flaking)
Hydrolysis (5% KOH, 7 days cycle)		Inhouse lab	No significant elastomeric change
Service temperature	°C	Inhouse lab	-30 to 90
Final curing time	d	Conditions 20°C, 50% RH	7
Chemical properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils		

*Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50% and without ventilation. It is possible for them 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 under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version.

Version C: 03/03/2026