

DANOFLOOR® PU 300

Wear layers



Elastic, two-components, self-levelling coat for wear layers, crack resistant in DANOCOAT, DANOPUR and DANOFLOOR systems.



VERY GOOD
BONDING



BICOMPONENT



GOOD
ELASTICITY



SOLVENT-FREE
NO PLASTICIZERS

1. PRODUCT DESCRIPTION

DANOFLOOR 300 is a two-component, polyurethane, elastic, solvent and plasticizer-free resin used as wear and protection layer in waterproofing systems for indoor and outdoor parking. DANOFLOOR PU 300 allows to be sprayed with mineral loads (aggregates, corundum or carborundum) in order to obtain anti-slip finishing and with degree of mechanical resistance.

1.1 Uses

- Elastic wear layer for DANOCOAT, DANOPUR and DANOLFLOOR water-proofing systems.
- Elastic coat for pavements with crack bridging capacity.

1.2. Compatible supports

Concrete, DANOCOAT, DANOPUR and DANOFLOOR systems.

1.3. Advantages

- Good elasticity with a capacity to bridge cracks
- Good bonding and abrasion resistance
- Good chemical resistances to oils and fuels.
- Water-proof
- Eco-friendly: solvent-free
- Solid content > 95%
- Resistant to vehicle traffic
- Good opacity
- Possibility of rendering anti-slip with 0.3-0.8mm and 0.6-1.2mm aggregates. Complies with class 3, according to UNE EN 12633:2003 resistance to pavement slip

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2. TECHNICAL DATA

PRODUCT DATA		
	COMPONENT A (polyol)	COMPONENT B (isocyanide)
COLOUR	Colours	Brown
PRESENTATION	16 kg can	4 kg can
DENSITY (g/cm ³) at 23°C	1.40 ± 0.05	1.24 ± 0.05
DENSITY MIX (g/cm ³) at 23°C	1.37 ± 0.05	
VISCOSITY (MpA.S.) AT 23°C	3050 ± 200	90 ± 20
VISCOSITY MIX (MpA.S.) AT 23°C	2060 ± 200	
RELATION A/B (in weight)	100/25	
APPLICATION DATA		
POT LIFE (min) at 23°C and 50% RH	25	
SUPPORT/AMBIENT TEMPERATURE (°C)	+10° / +35°C (3°C above dew point)	
RELATIVE HUMIDITY	< 75%	
PROPERTIES OF THE APPLIED PRODUCT		
SHORE D, ISO 868, 7 days/+23°C	65	
CONCRETE BONDING (with DANOPRIMER EP primer) (N/mm ³), EN 1542	> 2.0	
ELONGATION (%) (ISO 527-1)	138	
TENSILE STRENGTH (N/mm ²) ISO 527-1	12.7	
FINISHING	Shiny	
DRYING TIME at 23°C and 50% RH	Pedestrian traffic: 12h. Vehicle traffic: 24h. Total cure: 7 days	

3. PREPARATION OF THE SUPPORT

3.1 Characteristics of the support

The support must be cohesive, without loose particles, free from cracks or crevices, with regular surface texture and a tensile strength higher than 1.5 N/mm² and a compression resistance equal or higher than 25 MPa. Any previous coatings must be eliminated from the support. The support must be clean, dry, without oils, greases, surface slurries or other elements that may harm the adherence. Respect the coat's painting times on which it is to be applied. When applied on a DANOCOAT 6 DANOPUR membrane, it is very important to respect the membrane's cover times.

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4. APPLICATION MODE

4.1 Proof of the environmental conditions

Before starting the projection, check if the environmental and support's conditions are adequate:

- Temperature between +10°C and +35°C, and relative humidity <75%
- Humidity of the support <4%
- Temperature of the support, at least 3°C above dew point temperature
- Protect from condensation moisture and from rainwater during the first 24 hours after application.

4.2 Preparation of the product

Prior to the mix, it is recommended for the temperature of the components A and B to be between +15°C and +25°C. Pour component B in component A's container and shake the two components for 3 minutes with a low revolution mechanical shaker (300 to 400 rpm) until the mix is homogenous. The workability of the mix, its pot-life is around 25 minutes at a temperature of 23°C and 50% RH. With lower temperatures the pot-life increases. On the contrary, with higher temperatures it reduces.

4.3 Application method

SELF LEVELLING SYSTEM

Pour DANOFLOOR PU 300 on the support and extend evenly with a notched trowel. Level and eliminate the air with the help from a spiked roller, passing both ways, to ensure a continuous minimum membrane thickness.

ANTI-SLIP SYSTEM AND ELASTIC WEAR LAYER

Pour DANOFLOOR PU 300 on the support and extend evenly with a notched trowel. Level and eliminate the air with the help from a spiked roller. On the fresh coat, spray 0.3-0.8mm or 0.6-1.2mm quartz sand, lightly at first and then until saturated.

Sweep and vacuum the excess non-bonded sand when the DANOFLOOR PU 300 has hardened. Apply a coat of finishing thus improving the aesthetical cleanliness and appearance, extending it on the surface homogeneously with a rubber rake and afterwards sweep with a short brush roll.

RAMPS OR HIGH SLOPE SURFACES

Apply DANOFLOOR PU 300 in 2 successive coats with long brush roll or rubber rake and spray quartz sand on each coat.

If it is necessary a very sliding finishing or with a higher degree of mechanical resistance, in the last coat of DANOFLOOR PU 300, spray with corundum or carborundum, and with a > 1mm grade, considering that the finishing's consumption will be greater.

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4.4 Yield

The following table indicates the minimum and maximum time intervals to repaint on the DANOCOAT 500 membrane of the wear layer, seal and protection layers or application of the same membrane DANOCOAT 500 in the case of work joints, without having the need to reactivate the surface

SELF-LEVELLING SYSTEM FLAT 2MM FINISHING		
Coat	Product	Yield (kg/m ²)
Primer	DANOPRIMER EP/EPS	0.3-0.5
Base coat	DANOFLOOR PU 300	2.5
Final seal and finishing	DANOCOAT PAS700	0.25-0.3
ANTI-SLIP SYSTEM ANTI-SILP 3MM FINISHING		
Coat	Product	Yield (kg/m ²)
Primer	DANOPRIMER EP/EPS	0.3-0.5
Wear layer	DANOFLOOR PU 300 + Spray until saturation of aggregates 0.3-0.8mm	1.0-1.2 4-6
Final seal and finishing	DANOCOAT PAS700 + 5.10% of DANOCOAT Non-Slip	0.6-0.8
DANOCOAT PARKING SYSTEM		
Coat	DANOFLOOR PU300	Yield (kg/m ²)
Primer	DANOPRIMER EP/EPS	0.3-0.5
Waterproofing membrane	DANOCOAT 200/250/M	2.0-2.2
Wear layer	DANOFLOOR PU 300 + Spray until saturation of aggregates 0.3-0.8mm	1.0-1.2 4-6
Final seal and finishing	DANOCOAT PAS700	0.6-0.8

* The indicated yields are approximate and will depend in each case of the environment and support's conditions

4.5 Repainting intervals

The following table indicates the minimum and maximum time intervals to repaint on the DANOCOAT, DANOFLOOR membrane, on the wear layer or seal and protection layers without having the need to reactivate the surface.

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PRODUCT	MINIMUM TIME (HOURS)			MAXIMUM TIME (HOURS)		
	Temperature			Temperature		
	10° C	20° C	30° C	10° C	20° C	30° C
DANOCOAT	2	1	1	24	18	12
DANOFLOOR PU300 (sprayed with aggregate)	24	12	6	*	*	*
TOP COAT	6	4	2	24	18	12

* There is no maximum time if the coat has been sprayed until saturation and the support is dry and clean from any contaminants.

If the interruption of the works is for a time frame longer than the repaint maximum time, the surface of the membrane must be sanded, cleaned with solvent and applied with a DANOPRIMER PU union bridge.

5. NOTES

- The DANOFLOOR systems must be applied solely by certified installers.
- Do not apply DANOFLOOR PU300 in supports where there is negative pressure; the bonding may be affected or there may be blistering on the surface.
- In application with direct exposure to UV rays, it must be used the seal coat DANOCOAT PAS700
- Once the application is finalized, tool cleaning must be made with cleaning thinners. After drying, it can only be made with mechanical means.

6. STORAGE

Keep the containers hermetically sealed and protected from extreme temperatures (store between 10°C and 30°C) for a period no longer than 12 months at 20°C / 50% R.H. The last four digits of the lot number indicated in the tag correspond to the product's manufacturing date (month/year).

7. SAFETY AND HYGIENE INSTRUCTIONS

See the safety files of the two components.

8. LEGAL NOTES

All the information provided in this document is merely indicative, corresponding to our experience and current state of technical knowledge. It does not assume any contract agreement in respect of third parties. It is indispensable to conduct previous tests to verify the products adequacy for the intended use. Any doubt must be presented to our technical department.

You must always check if you are consulting the last edit of the technical file.

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