

DANOPRIMER® PU2K



Primer and two-component, polyurethane, solvent-free and low viscosity binder, fit for bituminous, mineral support and compatible with DANOCOAT®, DANOPUR® systems.



VERY GOOD
BONDING



BI-COMPONENT



SOLVENT-FREE
NO PLASTICIZERS



LOW VISCOSITY



GOOD ELASTICITY

1. PRODUCT DESCRIPTION

DANOPRIMER® PU2K is a primer and two-component, polyurethane, solvent-free and low viscosity binder with high bonding capability for bituminous and mineral supports.

1.1 Uses

DANOPRIMER® PU2K was formulated mainly to be applied in bituminous and mineral supports. After curing, DANOPRIMER® PU2K creates a layer with excellent bonding, elasticity and high resistance to impact. Also fit for a preparation of polyurethane mortars to repair and level uneven very porous supports; mixed with 0.063mm-0.3mm silicon aggregates with an approximate relation of 1:1, up to 1:2, depending of the ambient temperature and with application using a spatula.

1.2. Application fields

- Primer for DANOCOAT® and DANOPUR® systems (polyuria and polyurethane)
- Binder for levelling mortars

1.3. Compatible supportss

Concrete, fibre cement, cement mortars, asphalt membranes supports.

1.4. Advantages

- Good bonding
- Low viscosity
- Good elasticity
- Solvent-free
- Great support penetration and seal power
- Components supplied in a metal container with shackle lock

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2. TECHNICAL DATA

PRODUCT DATA		
	COMPONENT A (Polyol resin)	COMPONENT B (Isocyanate hardener)
COLOUR	Yellowish	Brown
PRESENTATION	5.5 kg can	4.5 kg can
DENSITY (g/cm ³) at 23°C	0,97±0,02	1,22±0,02
VISCOSITY (MpA.S.) AT 23°C	620±100	60±30
VISCOSITY MIX (MpA.S.) AT 23°C	300±50	
RELATION A/B (in weight)	100/82	
RELATION A/B (in volume)	100/65	
APPLICATION DATA		
POT LIFE (Mix life span)	10° C	60 min
	23° C	40 min
	30° C	20 min
SUPPORT/AMBIENT TEMPERATURE (°C)	+10°C/+30°C (3°C above dew point)	
RELATIVE HUMIDITY	<75%	
PROPERTIES OF THE APPLIED PRODUCT		
SHORE D at 23 °C (ISO 868)	24h	16
	48h	22
	7 days	35
CONCRETE BONDING after 7 days of curing (at 23°C, 50% RH)	Dry support: >2,0N/mm ²	
TENSILE STRESS (ISO 527-3)	> 80%	

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3. PREPARATION OF THE SUPPORT

3.1 Characteristics of the support

The support must be cohesive, without loose particles, free from cracks, with regular surface texture and a tensile strength higher than 1.5 N/mm² (pull-off test). 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. The support must be insulated against rising moisture.

3.2 Primer coverage rate

SYSTEM		PRODUCT	COVERAGE RATE* (g/m ²)
PRIMER	CONCRETE	(1-2) Danoprimer® PU2K	150 - 250
	FIBRE CEMENT	(1) Danoprimer® PU2K	200 - 250
	MORTARS	(1-2) Danoprimer® PU2K	150 - 250
	ASPHALT MEMBRANES	(1) Danoprimer® PU2K	200 - 300
REGULARIZATION MORTARS		1 part Danoprimer PU2K + 1 part of 0.063-0.3mm quartz sand	1,4 kg/m ² /mm

* The indicated coverage rates are approximate and will depend on each case of conditions of the support.

3.3 Preparation of the support

• Concrete

The support must be at least 28 days of curing and a compression resistance equal or higher than 25 MPa.

The residual moisture content must be lower than 4%. The temperature of the substrate must be, at least, 3°C above dew point temperature.

All loose particles, or contaminants, that affect the adherence, must be eliminated by using mechanical means: milling, sanding or gritting; aiming to regularize the surface and open pores, in order to enable a good adherence by the primer.

Before applying the primer, the support's defects must be repaired. The existing holes or areas with lack of material must be filled with DANOPRIMER® EPS epoxy resin, mixed with silicon sand in the approximate relation of 1:4, depending on ambient temperature. The cracks must be opened with a diamond disc until reaching a depth of 1 to 2 cm, vacuum the generated dust and fill with ELASTYDAN® PU40.

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• Asphalt membranes

The surface must be cleaned with pressured water and left to dry. The membrane must be glued to the support. If there are non-bonded areas, they must be cut and bonded with DANOPRIMER® PU2K. Reinforce the cut areas with DANOBAND® BUTYL.

3.4 Primer curing times

In the following table indicated the minimum and maximum waiting times for a proper curing of the primers. The designated times are merely indicative and may vary depending on environmental conditions, mainly regarding temperature and relative humidity.

PRODUCT	MINIMUM TIME (HOURS)			MAXIMUM TIME (HOURS)		
	Temperature of the support			Temperature of the support		
	10 °C	20 °C	30 °C	10 °C	20 °C	30 °C
DANOPRIMER® PU2K	16	5	3	72	48	48

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 +30°C, and relative humidity <75%.
- Humidity of the support <4%.
- Temperature of the support, at least 3°C above dew point temperature.

4.2 Preparation of the product

Pour component B in component A's container and shake the 2 components for 3 minutes with a low revolution mechanical shaker (300 to 400 rpm) until the mix is homogenous. After mixing, leave to rest for 1 to 2 minutes.

In case of adding the silicon sand to the mass, first mix component A and B, only then add the silicon sand to the mix.

Never add any type of solvents to the product

4.3 Application

• Concrete seal

Apply with brush or roll evenly, in order for the coat to be without any porous. In medium to high porosity supports, apply a second or more coat.

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• Regularization mortars

In case of very porous, irregular supports, a second coat of primer, type DANOPRIMER® PU2K, must be applied with trowel until reaching the required thickness. It must be mixed with 0.063mm-0.3mm silicon aggregate in an approximate relation of 1:1, depending on the ambient temperature. Apply the spiked roll to help levelling and remove the occluded air.

5. NOTES

- In outdoor surfaces, to avoid surface defects (blisters) due to the rise of water vapour in the concrete/mortar, it must be applied when the temperature is constant or when it is decreasing.
- Protect from humidity and water during the first 24 hours (20°C)
- Do not dilute, nor add any component that may alter the DANOPRIMER® PU2K product's characteristics
- It is very important to treat the cracks. A bad preparation of cracks may reduce the coat's life span.
- Do not apply in supports with moisture or water from pressured water due to underground water.

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 24 months. 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.