



DuroFlex®671

1 Component Primer and impregnation seal for flexible surfaces

DuroFlex®671, as delivered, is a polyurethane coating material ready for processing. The product hardens by reaction with traces of moisture from the air to form elastic, resistant layers with excellent adhesion to almost any substrate.

Due to its excellent substrate adhesion, DuroFlex®671 is perfectly suited as an adhesion bridge for subsequent coatings, preferably on difficult bituminous substrates. Such surfaces can also be sealed and protected against wear and, to a certain extent, even against the effects of oil and fuels by treating them twice or more with DuroFlex®671.

Seals with DuroFlex®671 are silk matt to glossy and dry clearly. The films provide excellent surface protection and are abrasion resistant.

Processing

DuroFlex®671 is ready to use and is applied with a brush, roller, on large surfaces also with a rubber slider. On very dense substrates, e.g. the so-called mirror concrete, surfaces of smoothed vacuum concrete or hard material coverings, it is recommended to thin the resin with an additional 20 - 30% DuroFlex®Verdünner 683 for better wetting and better penetration into the substrate when impregnating or for the primer coat in case of multi-layer sealers.

Important: Because the composition of bituminous substrates often cannot be precisely determined and fluctuates, it is always recommended to carry out test areas before coating such surfaces.

DuroFlex®671 hardens by reaction with the ambient humidity of air and substrate. Traces of water are sufficient for this. The hardening speed of the films depends on layer thickness, temperature and air humidity.

A layer of 200 µm thickness was tested on a glass plate at 20°C and relative air humidity of 50 %

- dust-dry after 60 minutes,**
- able to work under pressure after 24 hours**

Total stability is reached after 7 days.

Layer thickness of 250 µm should not be exceeded. Skinning will disturb the hardening process of the material. Carbon-dioxide bubbles and solvents can be implied if the material is used in too thick layers. Thick layers of DuroFlex®671 must be build with several work steps. It is necessary to wait 6 - 8 hours (20°C) between the single working steps.



The drying time of a single layer (50 % air humidity, 20 °C) should not be longer than 24 hours, before the next layer is applied.

For an optimum bond with subsequent coats, it may be advisable to sprinkle DuroFlex®671 with dry sand. The grading curve of the sand should be selected so that the sand grains are sufficiently integrated into the polymer film!

The surfaces must be dry, dust-free and free of all separating residues. DuroFlex®671 should not be used to rework old paints or coatings.

Consumption naturally depends on the roughness and absorbency of the substrate and the application technique. As a guide, a consumption of approx. 200 - 300 gr/m² for the first coat of a "normally" smooth, absorbent concrete surface ("impregnation") and of 150 - 200 gr/m² for the second coat ("sealing") of such a surface can be assumed.

Layers made of DuroFlex®671, like all coatings of aromatic polyurethanes, are not UV resistant. They yellow when exposed to sunlight. The product should therefore not be used outdoors.

Properties

Type	Polymeric isocyanate (prepolymerised urethane)
Raw material basis	MDI
Character	Oil-like liquid
Components	One (ready to use)
Consistency	Low viscous, thin fluid
Viscosity	70 - 150 cSt. (mPa.s) at 20°C
Density	Approx. 1,01 gr/ml (20°C)+
Solid content	Approx. 40 %
Colour	Brown, unclear layer, yellow-transparent
Odour	Pleasant fruity, like solvent
Flash point	< 21°C

Storage Safety

The product should only be stored in the original containers, which must always be tightly closed. DuroFlex®671 is a flammable liquid. During storage and processing, ensure adequate ventilation and avoid fire and open light.

A safety data sheet is available for this product. It contains all relevant and up-to-date information on the safe handling of DuroFlex®671, on occupational safety and on the disposal of product residues.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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ARCAN Waterproof

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