



DuroFlex®682

1 component PU-sealant and impregnation. Transparent or pigmented

DuroFlex®682 is a solvent containing prepolymer, based on aliphatic diisocyanates. The product hardens by reaction with air humidity to glossy films with good filling power and resistance against UV light, chemicals and mechanical effects.

DuroFlex®682 is recommended as a crystal-clear, non-yellowing sealant for concrete surfaces, as a protective coating on slabs and tiles, as a protective coating for glass fibre reinforced plastics (polyester, VE and EP resins) and for similar applications.

Processing

The product, as delivered, is ready to use. It can be additionally diluted with our special thinner DuroFlex®689 if required. The setting time depends on layer thickness and air humidity. If required, it is possible to add 1-2% of accelerator HydroCat® 056.

Like all other PUR resins it creates CO₂ as side product during hardening process. Please avoid high layer thickness during application (no ponding!). Air humidity >85 % during application can also lead to film defects due to bubble formation. Coatings activated with HydroCat® have a much stronger tendency to blistering because the water-NCO-reaction takes place faster and the developed carbon dioxide cannot escape from the film. This property must be taken into account.

Surfaces must be dry, free of contaminations and separating substances and have sufficient load-bearing capacity. We refer to the relevant standards and known rules of technology for paints and coatings, which also apply to this product.

Properties



Composition	Diisocyanate prepolymer, aliphatic
Components	1
Solid content	55% +/- 3 %
Viscosity	700 +/- 300 mPa.s
Colour index (iodine)	< 4
Density	Approx. 1,03 gr/ml (20°C)
Flash point	Approx. 50°C
Rest monomer content	< 0,5%
Setting time (layer 200 µm)	Dust-dry after 4; walkable after 12 hours

Storage Safety



DuroFlex®682 reacts with traces of water. Keep the product always closed tight in the original cask. Avoid storage above >30°C, the viscosity may rise above this temperatures. If stored appropriate, DuroFlex®682 is storable for at least 6 month.

Conditioned by the content of burnable solvents and isocyanates, the product need to handled and stored with special care. Do not store DuroFlex®682 together with food. Storerooms need good ventilation. Avoid fire and open light as well as blazing heat sources.

Details informations about safe handling can be found in our safety data sheet. It contains all information about transport, storage, handling, ecology and disposal.

Recommended additives :

HydroCat®056

A special activator aligned for aliphatic prepolymers. Activates the reaction with water. Additional amount of about 2 % shorten the setting time for about 50 %. Do not apply with air humidity >85 %.

HydroSolv®520

A high reactive safety solvent for cleaning of tools and machines. HydroSolv®520 is environmental friendly safety solvent with high flash point. It is harmless, non-toxic and not harmful to health.

DuroFlex®689

Special thinner made of solvent combination for aliphatic NCO-prepolymers. Does not affect storage and light stability of the resin.

HydroMoll®522

A efficient and well-priced care and conservation agent for PU-machines and hoses. It is a combination of solving additives and special diluents. Can stay in machine and avoids jamming of valves and gaskets. No labelling required.

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.

ATI-DuroFlex®682 |10|2019
© ARCAN GmbH
All rights reserved

ARCAN Waterproof
ARCAN GmbH Spezialbaustoffe

Kleinniedesheimer Strasse 19
D-67240 Bobenheim-Roxheim
Phone: +49 (0)6239 - 99 78 20
Mail: office@arcan.biz
Web: www.arcan.biz

passion to invent 