



DuroFlex®-678 Pro

Topcoat, sealing and protective coating

DuroFlex®-678 Pro is a wear-resistant and very durable protective coat for mineral surfaces and resin coatings. The bonding agent is a water emulgated hybrid resin made of polyurethane and acrylates.

Films made of DuroFlex®-678 Pro are absolutely transparent, matt and highly abrasion-resistant and additionally high chemical resistant. They are weatherproof and non yellowing even by intensive UV irradiation.

DuroFlex®-678 Pro is recommended as protective coating for

- **Industrial concrete floors**
- **Screeds made of cement, magnesit, anhydrit and melted asphalt**
- **Coverings made of natural and artificial stones**
- **Coatings made of Epoxy and Polyurethane resins**

The matt appearance of this sealant effectively prevents the often disturbing reflections of glossy coatings and thus conceals any unevenness, trowel strokes etc.

Underground

The underground need to be clean, free of dust, and separating substances as well as sufficient stable. **DuroFlex® Coatings should be top coated latest 48 hours after application or immediately after hardening.**

**Never mix
manual -
always with
machine!**

DuroFlex®-678 Pro consists of two components. They are supplied packaged in the appropriate ratio and are carefully mixed before processing. A machine should always be used for mixing. Appliances with low speed (e.g. electronically controlled drills) and a stirrer or propeller are particularly suitable. The ready mixed product must be homogeneous and free of streaks. As a rule, a mixing time of approx. 3 minutes is necessary for perfect mixing.

**Very important:
Always repot!**

Two or more component products should be always filled in a second container after mixing and mixed again. This practice avoids the use of inhomogeneous material.

Usually DuroFlex®-678 Pro is applied in one layer by rolling up with a fur roll with short hair. Bigger areas could be applied with a rubber squeegee and afterwards distributed with a roll.

Properties

Chemical material	Acrylate resin cross-linked with isocyanates (AC-PUR hybrid)
Solvent	Water
Colour	Transparent, clear
Surface	Matt
Viscosity	Low, slight shear thinning
Density	Approx. 1,02 - 1,04 g/ml / at 20°C
Solid content	36 - 37 %
Mixing ratio A:B	10 : 2,2
Pendulum hardness	> 100 / 14d

Application data

- Processing time	Approx. 120 minutes / at 20 °C
- Temperature range	8 - 30 °C (+)
- walkable	After ~ 4 h / at 20 °C + 75% rel.LF
- Chemical loading	After 3-4 days / at 20 °C
- Consumption	80 - 150 gr/m ² , depends on the underground

**Work always wet in
wet and pay
attention to
the temperature**

Attention: Work always wet in wet to avoid overlappings!

The processing time of multi component products is influenced through the surrounding temperature and the underground temperature.

To avoid surface failure such as spot creation, streaks or whitening etc. the underground temperature must be minimum 3°C over the temperature of the dew-point.

**Beware of
draughts or
strong sunlight**

Special care during application is recommended in case of strong air movement or sunlight. Films made of DuroFlex®-678 PRO dry physically - especially in thin layers - even before the actual cross-linking reaction with the hardener, by evaporation of the water. The risk of so-called "build-ups" then arising is particularly high.

This DuroFlex® product can also be applied in several layers. For a perfect adhesion between the layers, however, subsequent coats should be applied after 24 hours at the latest.

**Chemical
resistant**



Break fluid (hydraulic oil)	+++
Fuel	+++
Engine and gear oil	+++
Diesel fuel / fuel oil	+++
Caustic soda, 50% (NaOH)	+++
Ammonia solution (ammonia hydrochloride), 12 %	+++
Lactic acid	+++
Fatty acid (Standard test mixture)	+++
Acetic acid	+++
Tartaric acid	+++
Industrial cleaner (based on Na-hypochloride)	+++
Household detergent	+++
Ethanol (50% in water)	+++

....against stains

Car tyre (RT- 20 °C)	+++
Car tyre (72 hours at 50 °C)	++
Red wine	+++
Mustard	+++
Grease	+++
Coffee	+++
Cola	+++

Storage Safety Disposal

These DuroFlex® products are not flammable, but are combustible. They must be protected from fire or radiant heat. The products should be stored in a cool and dry place and in such a way that they are not accessible to children and unauthorised third parties. The A-component is sensitive to frost, it becomes unusable by freezing.

Opened containers must be tightly closed again immediately after use and used up immediately. The B-component contains isocyanates and reacts with water and air humidity, making it unusable.

When handling the components, avoid contact with skin, mucous membrane and eyes. Suitable protective clothing and goggles must be used for processing. Under no circumstances should aerosols (spray mist) and product vapours produced during spraying be inhaled. The relevant industrial safety regulations of the trade associations must be observed.

Hardened DuroFlex® Products are chemical inert and could be disposed as normal building rubble. Liquid left overs are special waste. Don't use empty cans for other possibilities.

Safety data sheets are available for both components of the product. They contain all necessary and up-to-date information on the safe handling of the products and their disposal.

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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