



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

In contrast to shining coatings where distracting reflexes are normal the matt visual appearance guarantees a visual attractive surface where a slight unevenness or trowel traces is concealed.

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 2 components. They are delivered in matching relations and mixed properly before application. Use always a machine for mixing. Especially suitable are machines with low rotation speed and a propeller. The ready mixed product must be homogeneous and free of streaks. Usually a mixing time of 3 minutes is sufficient for a proper mixing.



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	With Isocyanaten cross linked Acrylic resin (AC-PUR-Hybrid)
Solvent	Water
Colour	Transparent, clear
Surface	Matt
Viscosity	Low, slight shear thinning
Density	Approx. 1,02 - 1,04 g/ml / 20°C
Solids content	36 - 37 %
Mixing ration A:B	10 : 2
Pendulum hardness	> 100 / 14d

Application data

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

Labelling

- Dangerous goods	Xn (only component B)
- Transport (ADR/RID)	Not applicable
- VOC-guideline	Not applicable
- Toxicity Class CH	Not registered

**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
airflow or
intensive
solar
irradiation**

It is important to work extra accurate in case of airflow and intensive solar irradiation. Thin films of DuroFlex®-678 Pro dry up under airflow or solar irradiation because the water evaporates rather before the final hardening process takes place. This holds the danger of border effects.

These DuroFlex® products could be applied in several layers. To guarantee a proper adhesion between the layers the time between the applications should be max. 24 hours.

**Chemical
resistant**



Break fluid	+++
Fuel	+++
motor and gear oil	+++
Diesel fuel / fuel oil	+++
Soda lye, 50% (NaOH)	+++
Ammonia solution (Salmiakgeist), 12 %	+++
Lactic acid	+++
Fatty acid (Standard test mixture)	+++
Acetic acid	+++
Acidity of wine	+++
Industry cleaner (Basis Na-Hypochlorid)	+++
Dish washing detergent	+++
Ethanol (50% in water)	+++

....against stains

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

**Storage
Safety
Disposal**

These DuroFlex® products are not fire hazard but flammable. Store in a cold and dry place away from radiating heat or fire. The material must be stored out of reach of children and unauthorized persons as well as foodstuff.

Once opened cans must be closed directly after material removal and used as soon as possible. The A component is sensible with frost and is destroyed after freezing. The B component hardener contains Isocyanate and reacts with water which creates gas CO₂. The product is useless afterwards.

Avoid eye and skin contact and use protective clothes and goggles. If sprayed use breathing protection and avoid under all circumstances inhalation of Aerosols and product vapour. Mind the working rules.

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.

Mind the safety data sheets which contain detailed information for safe handling of DuroFlex®.

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 for safe handling with DuroFlex®-678 Pro.

ARCAN Waterproof

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Passion to invent

