

DUROPUR

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1K-PUR bonding agent FH-1000

VFL
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Properties

DUROPUR is a moisture-curing 1-component adhesion promoter based on polyurethane resin. The access of air humidity during application creates compounds with which the polyurethane resin can cross-link. It meets the highest requirements in terms of chemical and mechanical resistance. DUROPUR produces hard, abrasion-resistant yet elastic coatings with excellent resistance to solvents, petrol, mineral oils, cleaning agents, diluted acids and alkalis, etc.

Field of application

- As a primer for mineral substrates, in order to apply a subsequent coat.
- As adhesion promoter for renovation on old but still intact 2-component floor coatings (make adhesion test in advance).
- As a coloured primer and top coat coloured with 20 % BRILA-TINT AC 2K ink paste.
- As an extremely hard-wearing varnish for composite panels made of wood and other materials.
- Also suitable to a limited extent as an interior sealing lacquer for petrol tanks (without guarantee).

Pretreatment

For new floors, the drying and setting times must be observed according to the floor manufacturer's instructions. The substrate must be freed from all adhesion-reducing layers and impurities. For example, cement residue, sintered layers, liquid foils (curing), etc. must be completely removed by blasting, grinding (with NEUTRASOL cement floor cleaner) or other suitable means. The substrate must be clean, dry and free of oil, grease and wax. Clean old coatings with GEIGER SE-1 leachers / PUROL active cleaner concentrate, rinse with clean water and allow to dry well. Remove poorly adhering old coats (adhesive tension test, cross-cut) mechanically.

Processing

During application, a minimum substrate temperature of 10 °C, a maximum floor moisture of 5 % and a maximum air humidity of 75 % must be observed, otherwise film formation may be disturbed, resulting in poor drying, reduced adhesion, lower gloss, poor flow or poorer resistance. DUROPUR must be recoated within 2 to 4 hours to avoid intermediate sanding (the formation of polyurea prevents adhesion of the following coat). Weakly absorbent surfaces should still have a weak adhesive effect (wear nail sole during application).

System structure

As primer or adhesion promoter

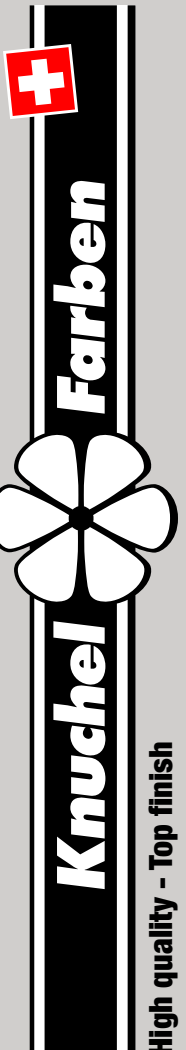
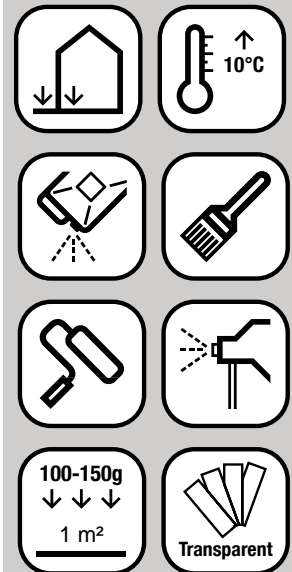
- 1 x DUROPUR 1K-PUR bonding agent FH-1000 colourless
- 2 x Finish coat with a suitable 2K floor paint

As a coloured floor coating

- 2 x DUROPUR 1K-PUR bonding agent FH-1000 in the desired shade
- DUROPUR tends to yellow very much, so for light color shades DUROPON 2K-PUR floor paint DS DD-319 silk matt should be used as top coat.
- In order to achieve increased slip resistance without impairing cleanability, it is recommended to add an additional 5 % CREASAVE Slip Stop 60 µm to the top coat.

Coating thickness application

50 µm per application



Drying	<ul style="list-style-type: none">◆ Dust dry after 1–2 hours◆ Firm to the touch after 3–4 hours (depending on the temperature, application quantity, humidity and air circulation)
Dilution	Use DUROPUR undiluted. If necessary, dilute with DD thinner.
Extensiveness	6–10 m ² per kg per application, depending on the quantity applied and the condition of the substrate.
Application	Brush, roller or spray gun. In order to achieve optimum results, it is very important to use the right tools – see KNUCHEL GUIDE on brush and roller qualities. You will find this guide both in the catalogue and on the homepage as an attachment to this product.
Cleaning	Clean tools immediately after use with DD, universal or cleaning thinner.
Delivery form	Packages of 10, 5 and 1 litres.
Shelf life	DUROPUR can be stored for at least 6 months in the well closed original container. When air is supplied, the paint reacts with the humidity and thickens. Store in a cool and dry place.
Viscosity	Low viscosity / 10–14 seconds DIN 4mm
Density	0,95 ± 0,05 g/cm ³
Solid content	50 ± 1 %
Binder base	Isocyanate containing adhesive resin
Gloss level	Approximately 80 % at 60° angle (depending on the absorbency of the substrate).
Colours	Transparent – yellowish. – With addition of 20 % BRILA-TINT AC colour concentrate according to RAL or NCS colour chart. Due to its storage stability, the pigment paste is supplied separately and is only mixed in by the processor shortly before use. 5 litres DUROPUR 1K-PUR bonding agent FH-1000 and 1 kg BRILA-TINT AC 2K ink paste. – With DUROSAFE colour tone concentrate FH
Registration	CPID 276986
Classification	For information on chemical properties and hazards as well as regulations regarding transport, processing, storage, disposal, etc., please refer to the safety data sheet.
Note	This leaflet is only intended as a reference and non-binding advice. The processing must be adapted to the corresponding conditions. In special cases we recommend to contact our technical service. However, all data and information on the suitability and application of the delivered products do not exempt the processor from carrying out his own tests and trials. A claim for damages for omitted, incomplete or incorrect information is excluded. This applies in particular also if thinners and other products are used in the paint build-up system. Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.