

DURODUR

2K-PAC coating

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VFL
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Properties

DURODUR is a solvent-free and self-leveling 2-component coating based on polyaspartic acid ester with very high impact, shock and abrasion resistance. DURODUR coatings have excellent adhesion, are non-yellowing, extremely weatherproof and show very good gloss retention, lightfastness and chalking resistance.

DURODUR meets the highest standards of hygiene, durability and abrasion resistance and offers excellent resistance to a wide range of chemicals, mineral oils, fuels, diluted acids and alkalis, lime solutions, etc.

Field of application

As a hard-wearing 2-component floor paint in garages, production and storage rooms of the food industry, civil defence facilities, car showrooms, cheese factories, slaughterhouses, laboratories, hospitals, cellars as well as for coating walls, iron constructions, containers, machines, factories, etc.

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. Remove old coats if possible or prepare them accordingly for medium loads. Any cracks are milled out and filled with a suitable mortar compound (e.g. mixture EPOTEX / quartz). For problematic renovations, use at most DUROPUR, EPOSAN or EPOTEX as adhesion promoter. In order to obtain lasting protection, substrates with rising damp must be renovated as a matter of priority.

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.

Before use, mix components A and B together according to the mixing ratio and blend thoroughly. When mixing components A and B together, ensure that they are thoroughly mixed. Component B (hardener) is slowly added to component A (stock solution) while the stirrer is running at low speed. The whole mixture is then repotted and stirred well again. For increased slip resistance, quartz sand can be sprinkled into the liquid DURODUR coating CRESTONE.

If DURODUR is used to protect vertical surfaces, CREATHIX adjusting devices must be added for this version.

System structure

Primer

Depending on the substrate, the following primers are used: DUROPUR 1K-PUR bonding agent FH-1000, EPOXIM 2K epoxy sealer, EPOSAN 2K epoxy moisture barrier or BLENDAR[®]-POX 2K epoxy paint «ECO».

Coating system

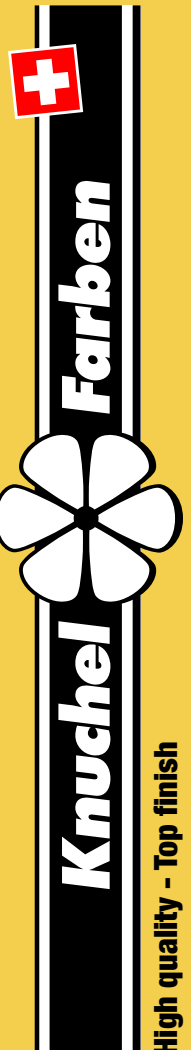
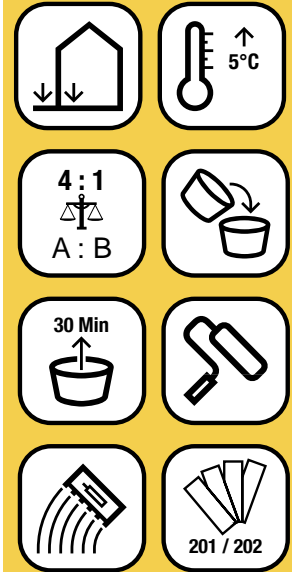
1 x DURODUR 2K-PAC coating in the desired shade

Painting system

1–2 x DURODUR 2K-PAC coating in the desired shade

Drying

◆ Dust dry after 3–4 hours



- ◆ Can be reworked within 3 to 24 hours
- ◆ Loadable after approx. 6 hours
- ◆ Thoroughly dried and loadable after 1–2 days
(assumption 20 °C, normal humidity and application quantity)

Dilution	DD thinner (polyurethane) <ul style="list-style-type: none">– Use DURODUR undiluted.– For rolling and brushing applications: Dilute DURODUR with 10–15 % DD thinner (polyurethane).
Extensiveness	Coating system 1,0–2,5 kg per m ² and coat, depending on the type of application. Painting system 150–250g per m ² and coat, depending on the substrate.
Mixing ratio	4 parts by weight component A and 1 part by weight component B (4 : 1).
Pot life	After mixing the A and B components, DURODUR can be processed for about 30 minutes at 20 °C. Finished mixed material must be emptied on the surface to be treated within minutes to prevent an accelerated reaction (heat development) in the boiler. Only mixing units which can be processed within a short time should be used. Mixed material that becomes musty in the processing phase may no longer be used.
Application	Roller, brush, scraper or surface spatula.
Cleaning	Clean tools immediately after use with DD, universal or cleaning thinner.
Delivery form	Packages (including hardener) of 10, 5 and 1 kg.
Viscosity	Components A: 1300–1500 mPa.s / Components B: 700–800 mPa.s Components A + B: 1000–1300 mPa.s
Density	Components A: 1,80 ± 0,05 g/cm ³ / Components B: 1,15 ± 0,05 g/cm ³ Components A + B: 1,60 ± 0,05 g/cm ³
Solid content	Components A: 100 % / Components B: 100 % Components A + B: 100 %
Binder base	Components A: Components B:
Gloss level	Gloss
Colours	Standard colours: 201 light grey and 202 medium grey Other colours on request (limited choice of colours). Only grey pastel shades are suitable for the casting process. Light colours are not recommended for garage floors due to possible discolouration by tyres or tyre marks.
Registration	Components A: CPID 611655 Components B: CPID 000000 (article 911)

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 if thinners or hardeners and other products are used in the paint build-up system.

Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.