Disbothan 885 PU-Color

Pigmented, 2-component polyurethane resin for sealing rigid to viscous-rigid PU and EP coatings. For exterior and interior use.

Product Description

Field of Application

The product is suitable for markings, as e.g. parking lanes in parking decks, applicable on Disbon Parkhaus-Systeme (parking garage systems) OS 8, OS 11 a+b, OS 13.
Suitable for glossy/shiny, pigmented markings on quartz sand-treated, sealed, rigid and viscous-rigid PU and EP coatings on exterior and interior surfaces.

Material Properties

- Abrasion-resistant.
- High opacity (hiding/covering power).
- Good resistance to UV light exposure and chemicals.
- Good impact-resistance, shock-proof.
- Weather-resistant.

Material Base / Vehicle

Aliphatic 2-component polyurethane, solvent-based.

Packaging/Package Size

5 kg tin combi packaging and 25 kg packaging (base/component A: 21.25 kg tin hobbock, hardener/component B: 3.75 kg tin bucket)

Colours

Deliverable in most RAL colours.

The organic colourants in e.g. coffee, red wine or leaves and various chemicals, e.g. disinfectants, acids, etc., may cause discolouration.
Mechanical stress may lead to noticeable scratching of surfaces. Proper functioning of the coating will not be affected by these changes.
For bright-toned product a second coat may be necessary to achieve a sufficient opacity (proper surface).
Individual colours are available, on request.

Gloss Level

Glossy

Storage

Store in a cool, dry and frost-free place.
Shelf life of original, tightly closed containers: min. 18 months. If temperatures are low, the product should be stored at approx. 20 °C before use.

Technical Data

Density:	Approx. 1.25 - 1.3 g/cm^3
Dry film thickness:	Approx. 30 µm/100 g/m^2
Abrasion to Taber (CS 10/1000 U/1000 g):	66 mg/30 cm^2

Chemical resistance

Chemical Resistance Table according to DIN EN ISO 2812-3:2007 at 20 °C	
Test groups according to testing principles of DIBt, Berlin	24 hours
Group 1: Petrol/gasoline	+(E)
Group 3: Heating oil "EL" (according to DIN 51 603-1)	+(E)
Group 4: All hydrocarbons	+/-
Group 5: Alcohols	+(D,S)
Group 7b: Biodiesel (according to DIN EN 14214)	+
Group 9: Aqueous solutions of inorganic acids (carboxylic acids) up to 10 %	+(D)
Group 10: Mineral acid solutions up to 20 %	+(D)
Group 11: Inorganic lyes/bases	+(D)
Skydrol	+(D)
Xylol	+/-(S)
Ammonia solution 25 %	+
Ethanol 96 %	+/-(S)
Hydrochloric acid solution 10 %	+(D)
Brake fluid	+/-(D)
Common salt solution, saturated	+
Legend: + = Resistant, +/- = Limited resistant, D = Discolouration, S = Slight softening	

Application

Suitable Substrates

Adherent, rigid to viscous-rigid polyurethane and epoxy coatings. Mineral substrates.
The substrates must be sound/stable, dimensionally stable, solid and free from all substances that may prevent good adhesion, e.g. loose/brittle materials, dust, oils, fats/greases or abraded rubber contamination (scuff/skid marks).

Substrate Preparation

Prepare the substrate by suitable means (thoroughly sweep the dust off or suck off), in order to fulfil the above mentioned requirements. Slightly grind/sand the surface of compact mineral substrates.

Sand the surface of existing coatings to stress whitening. Seal freshly applied reaction resin coatings the following day. For longer waiting times the coating surface must slightly be sanded/roughened using fine grit (non-woven web). Deep scratch marks, induced with substrate preparation, cannot be covered with the product. At low temperatures the waiting time is correspondingly longer. Allow water-thinnable reaction resin systems to dry sufficiently.

Preparation of Material

Stir up the base material (component A), then add the hardener (component B) and stir intensively with a low-speed electric paddle mixer/agitator (max. 400 rpm). Continue stirring until a homogeneous, streak-free colour shade is achieved. Pour the mixture in another clean mixing vessel and stir again very thoroughly.

Mixing Ratio

Base material (component A) : hardener (component B) = 85 : 15 parts by weight

Method of Application

The product is applicable with paint brush or solvent-resistant roller.
Apply wet-on-wet and very thoroughly/uniformly, avoiding roller marks, to achieve an even surface.

Noticeable lapping (overlap marks) may occur, when dark tinted product is not applied wet-on-wet. If so, the surface must be masked. Roller grid must be used.

Surface Coating System

Smooth/Even Surface on Existing Coatings
Apply a thin film of product, very evenly and crosswise. Seal seamless surfaces in one go, in order to avoid noticeable lapping. Further work steps may be necessary to obtain best possible opacity (hiding/covering power), especially with intensive colours or colour changes and very high visual standards.

Mineral substrates must be primed with Disbothan 236 Fugenprimer. Minimum flash-off time: 30 minutes.

Slip Resistant Surface
Add 3 % by weight of Disbon 947 SlideStop Fine to the product, mix thoroughly and seal as desribed above. During longer breaks the material has to be stirred up in between.

Consumption

Smooth/Even Surface	
Disbothan 885 PU-Color	Approx. 80 - 100 g/m² * per work step
Rough Surface (sand-treated, sealed coating in parking garages)	
Disbothan 885 PU-Color	Approx. 150 g/m²*
Mineral Substrates	
Disbothan 236 Fugenprimer	Approx. 100 - 150 ml/m²
Slip Resistant Surface	
Disbothan 885 PU-Color Disbon 947 SlideStop Fine	Approx. 150 g/m² Approx. 2 - 3 g/m²

* Two work steps are required to achieve a pore-free sealing on rough-textured substrates, like e.g. sand-treated interior coatings. The exact rate of consumption is best established by a trial coating on site.

Workability

At 20 °C and 60 % relative humidity approx. 5 hours.
Higher temperatures shorten and lower temperatures extend the pot life.

Note: The product has no noticeable end of pot life. Overstepping leads to changes of gloss level, lower stability/resistance and loss of adhesion to the substrate. Particularly for dark tinted product the variation of gloss level and roller marks, noticeable in sided (grazing) light, are unavoidable, when not applying very thoroughly and evenly. Avoid higher layer thickness (excess consumption > 250 g/m²), otherwise blistering occurs within the coating film. Ensure good ventilation during use and curing.

Application Conditions

Material, Atmospheric, and Substrate Temperature:
Min. 5 °C, max. 25 °C during application and curing.
Relative humidity must not exceed 80 %. Substrate temperature should always be min. 3 °C above the dew point temperature.

Waiting Time

Waiting time between work steps: Min. 16 hrs, max. 24 hours at 20 °C.

Drying/Drying Time

At 20 °C and 60 % relative humidity, walkable after approx. 16 hours. Ready for mechanical loads after approx. 3 days and fully cured after approx. 7 days.

Tool Cleaning

Immediately after use or during longer breaks. Clean with water or warm soapy water.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

For professional users only.

Mass:

Causes skin irritation. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. May cause drowsiness or dizziness. Keep out of reach of children. Do not breathe vapours/ spray. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. IF ON SKIN: Wash with plenty of soap and water. Store in a well-ventilated place. Keep container tightly closed.

Hardener:

Flammable liquid and vapour. May cause an allergic skin reaction. Harmful if inhaled. Keep out of reach of children. Keep away from open flames/hot surfaces. - No smoking. Do not breathe dust or mist. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. IF ON SKIN: Wash with plenty of soap and water. Store in a well-ventilated place. Keep container tightly closed. Contains isocyanates. May produce an allergic reaction.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be paid to removing wastage from site in compliance with standard construction site procedures. Do not allow product to enter drains, waterways or soil.
In Germany: Only completely emptied containers must be given for recycling. Residues of material: Allow base material (component A) and hardener (catalyst/component B) to cure and dispose as paints waste.

EU limit value for the VOC content

of this product (category A/J)LB: max. 500 g/l (2010). This product contains max. 450 g/l VOC.

Giscode

PU 50

Further Details

See Material Safety Data Sheet (MSDS).
Follow the application references and advice for care and maintenance of floor spaces while applying our products.

CE Labelling

EN 13813
CE labelling is based on EN 13813 “Screed mortars, screed compounds and screeds – screed mortars and screed compounds – Properties and Requirements" defining the requirements for screed mortars being used for floor constructions in the interiors. The standard also include synthetic resin coatings and sealing.
Products matching the above mentioned standards are to be labelled with the CE mark.

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