



Disbothan 446 PU-Klarschicht

Transparent, highly elastic, moisture-hardening one-component polyurethane sealing for exterior coatings.
Solvent-based.

Product Description

Field of Application	Abrasion-resistant sealer (smooth or anti-slip) for coloured coatings (with chips interspersed) on exterior substrates, e.g. onto Disboxid 448 Elastikschicht, Disbothan 449 PU-Deckschicht, Disbon 400 BodenFinish and Disbon 404 Acryl-BodenSiegel.
Material Properties	<ul style="list-style-type: none"> ■ Crack covering ■ Excellent adhesion ■ Resistant to permanent water exposure ■ Weatherproof and resistant to UV light exposure
Material Base / Vehicle	Solvent based, humidity-hardening, one-component polyurethane
Packaging/Package Size	1 litre tin can, 5 litre tin pail/bucket, 10 litre tin pail/bucket (delivery on request)
Colours	Transparent
Gloss Level	Glossy
Storage	Keep in a cool, dry and frost-free place. Originally (air tight) closed packaging has a shelf-life of minimum 6 months. If stored at lower temperatures, the material should be stored at 20 °C before application.
Technical Data	<ul style="list-style-type: none"> ■ Density: approx. 1.05 g/cm³ ■ Dry film thickness: approx. 68 µm/100 g/m² ■ Shore hardness (A/D): 90/30 according to DIN 53505 ■ Ultimate elongation to DIN 53504: approx. 240 % according to DIN EN ISO 527

Application

Suitable Substrates	Coloured coatings as e.g. Disboxid 448 Elastikschicht, Disbothan 449 PU-Deckschicht, Disbon 404 Acryl-BodenSiegel. The substrate must be dry, sound, dimensionally stable, and free from all materials that may prevent good adhesion e.g. loose/brittle materials, dust, oils, fats/greases or abraded rubber contamination (scuff/skid marks). Cementitious flow mortars, ameliorated with synthetic resin, must be checked for compatibility by trial application, if necessary. Rising damp / moisture must be avoided.
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Substrate Preparation	Prepare the substrate fulfilling all the afore mentioned requirements. Recoat dispersion-based coatings at the earliest after a waiting time of 2 days. Lower temperatures lengthen the waiting time.				
Preparation of Material	The material is ready for use. Stir well before using it. Only for anti-slip applications, the material may be thinned up to 6 % with Disbocolor 499. If other thinners are used, irreparable surface stickiness may occur. The material should be used completely (without any remnants) to avoid hardened skin formation. Material that has already partially dried or thickened cannot be made fluid or usable by adding a thinner.				
Method of Application	The material may be applied with a short-bristle roller, resistant to solvents.				
Surface Coating System	The material is applied in pure form (smooth surface) or mixed with Disbon 947 SlideStop Rough and Disbocolor 499 Verdünner (anti-slip surface) in a thin coat.				
Consumption	<p>Topcoat on Disbon 400 BodenFinish, Disbon 404 Acryl-BodenSiegel, Disboxid 448 Elastik-schicht, Disbothan 449 PU-Deckschicht</p> <table border="1"> <tr> <td><i>Smooth surface</i></td> <td>approx.. 150 g/m²</td> </tr> <tr> <td><i>Slip-resistant seal (R 10)</i> Disbothan 446 PU-Klarschicht Disbon 947 SlideStop Rough (approx. 10%) Disbocolor 499 Verdünner (approx. 6%)</td> <td>approx. 150 g/m² approx. 15 g/m² approx. 9 ml/m²</td> </tr> </table> <p>The exact rate of consumption is best established by a trial application.</p>	<i>Smooth surface</i>	approx.. 150 g/m ²	<i>Slip-resistant seal (R 10)</i> Disbothan 446 PU-Klarschicht Disbon 947 SlideStop Rough (approx. 10%) Disbocolor 499 Verdünner (approx. 6%)	approx. 150 g/m ² approx. 15 g/m ² approx. 9 ml/m ²
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Application Conditions	<p>Material, atmospheric, and substrate temperature: Min. 5 °C, max. of 30 °C during application and drying. Do not apply during imminent rain or frost, or on heated surfaces. Relative humidity must be between 35% to 80%. Substrate temperature should be 3 °C above the dew point temperature.</p>				
Waiting Time	The waiting time should be 12 hours at 20 °C between coats. The given time-period shortens at higher temperatures and lengthens at lower temperatures.				
Drying/Drying Time	At 20 °C and 60% relative humidity, walkable/recoatable after approx. 12 hours. Ready for mechanical stress after approx. 3 days and thoroughly hardened after approx. 7 days. Time-period lengthens at lower temperatures. During the drying process (approx. 12 hours at 20 °C), the applied coat should be protected from moisture to avoid the forming of surface-faults and diminished adhesion.				
Tool Cleaning	Immediately after use or during longer breaks with thinner Disbocolor 499 Verdünner.				
	<p>Note: On contact with copper or coppery water, discolouration of the PU Clear Coat may occur.</p>				

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	Product only to be used by professional applicators. Flammable. Irritating to respiratory system. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe fumes/aerosol. Do not empty into drains. Wear suitable gloves. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Follow information supplied by the manufacturer (Safety Data Sheet/MSDS). The liquid product may cause acute irritation and / or sensitization of the respiratory system. Provide adequate ventilation during and after work. Avoid breathing vapours. May not be sprayed. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used. This information is provided by the present Material Safety Data sheet. Contains isocyanates. See information supplied by the manufacturer.
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. In Germany: Only completely emptied containers should be given for recycling. Containers with residues of material must be delivered to a collecting point for old enamels.
EU limit value for the VOC content	of this product (category A/j): 500 g/l (2010). This product contains max. 500 g/l of VOC
Giscode	PU 20
Further Details	See Material Safety Data Sheet (MSDS). Follow the application recommendation and advice for care and maintenance while applying our products.
Technical Assistance	As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

Customer Service Centre

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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 446 · Disbothan 446 PU-Klarschicht · Issued: April 2013

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