Disbopur 458 PU-AquaSiegel



Transparent, aqueous 2-component polyurethane resin for matt top sealing of rigid and viscous-rigid polyurethane- and epoxy-based interior coatings. Emission minimised, technically controlled and supervised (TÜV).

	Product Description	
Field of Application	Due to the emission-minimised, ecologically compatible formula, particularly suitable for all »sensitive/ delicate« areas, as e.g. lounges, hospitals, nurseries, play schools, schools, etc. For matt sealing of rigid and viscous-rigid polyurethane- and epoxy-based interior coatings with low resistant of mechanical loads. Component of the Disboxid StoneColor System for interior and exterior use. Additional top sealer within the Disboxid Multicolor Systems interior, and Disboxid ArteFloor System to achieve a matt surface. Enhances anti-slip properties if applied in combination with Disbon 947 Slidestop.	
Material Properties	 Emission minimised. Tested as to harmful substances by German Technical Control Board (TÜV) General Building Approval by the German Institute for Structural Engineering. Enhances the scratch resistance of rigid and viscous-rigid polyurethane- and epoxy-based coatings. Allows better surface cleaning. Reduces the forming of stripes caused by rubber abrasion (skid marks). Proper resistance to chemicals and UV rays. 	
	Tested according to AgBB test criteria for VOC emissions of building materials in interior rooms. The evaluations scheme of AgBB (A usschuß zur g esundheitlichen B ewertung von B auprodukten / Committee for the evaluation of building materials regarding health effect) has been derived by the Environmentally and Health Authorities for the use of building materials in sensitive areas, e.g. lounges / occupied spaces.	
Material Base / Vehicle	Water-thinnable 2-component polyurethane dispersion.	
Packaging/Package Size	4 kg plastic combi-packaging	
Colours	Transparent.	
	The pigmentation in, e.g. coffee, red wine or leaves (organic dyestuffs) and various chemicals, e.g. disinfectants, acids, etc., may cause discolouration. The surface may be scratched by abrasive stress. The functionality of the coating will not be affected by these changes.	
Gloss Level	Matt	
Storage	Dry, cool, frost-free. Tightly closed, original packaging has a shelf life of minimum 6 months. If temperatures are low the material should be stored at 20 °C before application.	
Technical Data	 Density: approx. 1.05 g/cm³ Dry film thickness: approx. 44 μm/100 g/m² Abrasion to Taber (CS 10/1000 U/1000 g): 17 mg/30 cm² 	





Chemical resistance

	7 days
est groups to testing principles of DIBT, Berlin	
roup 1: Motor fuels	+
roup 3: Heating fuel (to DIN 51 603-1)	+
roup 4: All hydrocarbons	+
roup 7b: Biodiesel (to DIN EN 14214)	+
roup 8: Aqueous solutions of aliphatic aldehydes o to 40%	+
roup 9: Aqueous solutions of inorganic acids arboxylic acids) up to 10%	+ (D)
roup 10: Mineral acids up to 20%	+
roup 11: Inorganic bases	+
roup 14: Aqueous solutions of organic tensides	+
kydrol	+
itric acid, 10% sol.	+
e III chloride sol., saturated	+
nosphoric acid, 85% sol.	+
/lene (xylol)	+
mmonia, 25% sol.	+
ola	+
offee	+ (D)
ed wine	+ (D)
thanol, 40% sol.	+
thanol, 96% sol.	+
stilled water	+
/hite spirit (turpentine substitute)	+
ydrochloric acid, 10% sol.	+
ydrochloric acid, 30% sol.	+ (D)

Application
Sound, adherent, rigid to viscous-rigid chipsprinkled polyurethane and epoxy coatings, Disboxid MultiColor Systems, StoneColor and ArteFloor Systems. The substrates must be dry, sound, dimensionally stable, solid, and free from all materials that may prevent good adhesion, e. g. loose materials, dust, oils, fats/greases or abraded rubber contamination (skid marks), etc.
Prepare the substrate by suitable method, e.g. thorough sweeping or suction cleaning (particularly in case of chip-sprinkled surfaces), fulfilling the above mentioned substrate requirements.
Roughen existing coatings to achieve a matt surface, avoiding the forming of scratch marks (do not use coarse-grained abrasive). Seal freshly applied 2-component coatings on the following day.
Respect without fail the waiting times given for recoating, if temperatures are low. For longer waiting periods the coating must be slightly sandpapered (use fine-grained abrasive medium). At lower temperatures the waiting time may be accordingly longer. Water-thinnable reaction resin systems require adequate time for drying.

	Klarschicht (transparent coat), a	458 PUAquaSiegel as finishing sealing coat a thorough cleaning is always required, using chutz or GR-S*, TANA Chemie. For basic clea st be respected.	undiluted basic
Preparation of Material	Add the hardener to the base material and stir intensively with a low-speed electrical paddle (agitator; max. 400 rpm) until a homogenous material, free of streaks, is achieved. Pour the mixture into a second clean container and continue stirring.		
Mixing Ratio	Base material : Hardener = 5 : 1 parts by weight.		
Method of Application	Apply with a textured polyamide roller, e.g. Rotanyl roller 8 mm, pile height 11 mm, manufacturer: Rotaplast. Always work wet on wet to achieve a uniform aspect.		
Surface Coating System	Smooth surface Apply the material crosswise and uniformly in a thin layer (cross-coat). Connected surfaces should be sealed in one application without interruption to avoid visible lapping.		
		947 Slidestop to the material, mix thoroughly a nger breaks the material should be stirred in b	
Consumption	Smooth surface		
	Disbopur 458 PU-AquaSiegel	80–120 g/m ² * each work step	
	Anti-slip surface		
	Disbopur 458 PU-AquaSiegel Disbon 947 Slidestop	approx. 130 g/m ² approx. 4 g/m ²	
		gh-textured substrates, e.g. Disboxid StoneCo surface. The exact rate of consumption is be	
Workability	At 20 °C and 60% relative humidity approx. 90 minutes. Higher temperatures shorten and lower temperatures extend the pot life.		
	and diminishing of strength and levels and traces, visible in the	noticeable. Exceeding the time limit will cause adhesion to the substrate. Apply uniformly to sidelight (especially for deeper shades). Do n ion > 200 g/m2) to avoid the forming of bubble ening period.	avoid different gloss ot apply in a high layer
Application Conditions	Never apply the material at temperatures below 10 °C and below the dew point temperature, to avoid everlasting white discolouration. Material, atmospheric, and substrate temperature must remain at a min. of 10 °C and a max. of 30 °C during application and hardening. Relative humidity must not exceed 80%. The substrate temperature should always be minimum 3 °C above the dew point temperature.		
Drying/Drying Time	At 20 °C and 60% relative humidity, walkable/recoatable after approx. 24 hours. Ready for mechanical loads after approx. 3 days and completely hardened after approx. 7 days. Lower temperatures extend the drying time.		
Tool Cleaning	Immediately after use and during longer breaks with water or warm soapy water.		

L

	Advice
German Certificates	 1-1129 Test of anti-slip property R11, Professional Association Institute, St. Augustin 1-1102 Test of anti-slip property R09, Material Testing Institut Hellberg, Lüneburg 1-1215 Certification emission minimised coating, TÜV Nord 1-1244 General Building Approval for the use in living spaces, Z-156.605-640, German Institute for Structural Engineering, Berlin 1-1242 General Building Approval for the use in living spaces, Z-156.605-639, German Institute for Structural Engineering, Berlin
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	For professional use only.
	Base material: not applicable.
	<i>Hardener:</i> May cause sensitization by skin contact. Keep out of reach of children. Avoid contact with eyes and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. On contact with skin, wash immediately with plenty of water and soap. Do not empty into drains, water courses or onto the ground. Wear suitable protective gloves and eye/face protection. Contains isocyanates. See information supplied by the manufacturer (see Material Safety Data Sheets).
	Hardener and mixed material (ready for use) may irritate skin and respiratory system and may cause sensitization and allergic reactions. Ventilate well during application and hardening period. Do not breathe vapours. Spraying/spray-application is not permitted. Allergic persons and people having respiratory ailments should not be assigned job at such places.
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 made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely emptied containers should be given for recycling. Residues: Harden the base material with the hardener and dispose of as paints waste.
EU limit value for the VOC content	of this product (category A/j): max. 140 g/l (2010). This product contains max. 20 g/l of VOC.
Giscode	PU 10
Further Details	See Material Safety Data Sheets. Follow the application references while applying our materials.
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. Additional engineer standards are effective for the use in Germany in structural safety relevant areas. Conformity is documented by the Ü sign (Überwachung = supervision) on the container. Established by documented evidence of conformity 2+ with controls and tests on the part of the manufacturer and notified bodys.
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.
Customer Service Centre	Tel.: (+49) 0 61 54 / 71 17 10 Fax: (+49) 0 61 54 / 71 17 11 e-mail: kundenservicecenter@caparol.de International Distribution: Please see www.caparol.com

Technical Information No. 458 · Issue: December 2013

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. 458 · Disbopur 458 PU-AquaSiegel · Issued: July 2013