### System Data Sheet

# **Disboxid MultiColor-System**

For balconies, terraces and arcades

10 Classic, 6 natural and 4-trend shades. Elastic, crack-bridging and sealing. High-quality, ambitious and individual.

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		Descript	

The Disboxid MultiColor-System is a surface designing system for self-levelling floor coatings (flow coat system). For use on balconies, terraces and arcades. The system consists of 3 products plus Disboxid 957 MultiColor-Chips and Disboxid 948 ColorChips Glimmer.

	System	Product	
	Priming coat (only for mineral substrates)	Disboxid 420 E.MI Primer	
	Intermediate coat with colour designing	Disboxid 448 Elastikschicht Disboxid 957 MultiColor-Chips Disboxid 948 ColorChips Glimmer	
	Finishing coat	Disbothan 446 PU-Klarschicht	
Areas of Application	Crack-bridging, sealing coating for mineral and sound existing coatings on balconies,		ed), ceramic coverings,
Material Base / Vehicle	<b>Disboxid 420 E.MI Primer:</b> Transparent, benzyl alcohol-free, 2-component liquid epoxy resin, total solid according to German Construction Chemistry.		
	<b>Disboxid 448 Elastikschicht:</b> Pigmented, two-component epoxy resin/polyurethane combination, low-solvent		
	Disboxid 957 MultiColor-Chips: Colourful synthetic chips.		
	Disboxid 948 ColorChips Glimmer: Colorful plastic glimmer		
	Disbothan 446 PU-Klarschicht: Transparent, one-component polyurethane	e liquid plastic, solvent based.	
Gloss Level	Glossy (finishing coat)		



#### Technical Data

	Disboxid 420 E.MI Primer	Disboxid 448 Elastikschicht	Disboxid 957 MultiColor-Chips Disboxid 948 ColorChips Glimmer	Disbothan 446 PU-Klarschicht
Density	approx. 1.1 g/cm <sup>3</sup>	approx. 1.3 g/cm <sup>3</sup>	-	approx. 1.05 g/cm <sup>3</sup>
Dry Film Thickness for each 100 g/m <sup>2</sup>	approx. 90 μm	approx. 60 μm	_	approx. 68 µm
<b>Mixing Ratio</b> Base material Hardener	7 parts by weight 3 parts by weight	4 parts by weight 1 part by weight	-	_
Workability / Pot Life*	approx. 30 min.	approx. 60 min.	-	-
Consumption	approx. 200 – 400 g/m²	approx. 2 kg/m²	approx. 800-1.100 g/m <sup>2</sup> Disboxid 957 MultiColorchips ca. 27 - 39 g/m <sup>2</sup> Disboxid 948 ColorChips Glimmer	approx. 400 - 600 g/m²
<b>Drying Times*</b> Walkable Resilient (mechanical loads) Completely hardened	after approx. 12 hours after approx. 3 days after approx. 7 days	after approx. 12 hours after approx. 3 days after approx. 7 days	-	after approx. 12 hours after approx. 3 days after approx. 7 days

\* Reference values at 20 °C and 60% relative humidity

Package Size / Colours

Product	Packaging size	Colours
Disboxid 420 E.MI Primer	25 kg container: 17.5 kg tin-Hobbock (base) 7.5 kg tin-bucket (hardener) 10 kg tin combi-packaging 5 kg tin combi-packaging 1 kg tin combi-packaging	Transparent
Disboxid 448 Elastikschicht	10 kg tin combi-packaging 3 kg tin combi-packaging	Pebble grey
Disboxid 957 MultiColor-Chips	5 kg-carton	Classic colors: bronzite, garnet, onyx, lava, aquamarine, sapphire, emerald, jade, ruby, red jasper Natural colors: granite, light granite, diorite, syenite, monzonite, labradorite Trend colors: opal, amethyst, jet, ametrine
Disboxid 948 ColorChips Glimmer	1 kg plastic-bucket	Gold, silver
Dixbothan 446 PU-Klarschicht	1 kg tin can 6 kg tin-bucket 12 kg tin-bucket	Transparent

Note: The colors mentioned above are achieved only in conjunction with the Pebble grey shade (with chip-colour bronzite and garnet, optionally nut-brown) of the intermediate coating Disboxid 448 Elastikschicht.

Discolouration and chalking effects may occur with weathering and UV light exposure. The colourants in, e.g. coffee, red wine or leaves (organic dyestuffs) and various chemicals, e.g. disinfectants, acids, etc., may cause discolouration. Scratch-marks may appear on the surface due to mechanical loads with grinding effect. Proper functioning of the coating will not be affected by these changes.

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Storage	Product	Storage	Shelf life
0.0.490	Disboxid 420 E.MI Primer	cool, dry, frost-free	2 years, original packaging
	Disboxid 448 Elastikschicht	cool, dry, frost-free	1 year, original packaging
	Disboxid 957 MultiColor-Chips	cool, dry, frost-free	unlimited
	Disboxid 948 ColorChips Glimmer	cool, dry, frost-free	unlimited
	Disbothan 446 PU-Klarschicht	cool, dry, frost-free	6 months, original packaging
	If temperatures are low, the material mu	-	
	Application		
	Application		
Suitable Substrates	All types of mineral and ceramic substrates. Also suitable for application on compatible two- component coatings. The substrates must be sound, dimensionally stable, solid and free from all materials that may prevent good adhesion, e.g. oils, fats/greases or abraded rubber contamination (skid marks). Tiles and cementitious flow mortars, ameliorated with synthetic resin, must be checked for compatability by trial application, if necessary. The adhesive tensile (pull-off) strength of substrates must be min. 1.5 N/mm <sup>2</sup> . Moisture content for cement-based substrates must not exceed 4% by weight (this also applies to screeds under existing tiles). Rising damp/moisture must be avoided.		
Substrate Preparation	Prepare the substrate by suitable means, e.g. grit blasting (shot peening) or milling, in order to meet the above mentioned requirements. Always remove existing 1-component coatings and loose 2- component coatings. Vitreous surfaces and surfaces of rigid existing 2-component coatings must be cleaned and roughened (flattened) by sanding or blasting. Repair spallings and defects with Disbocret® PCC mortar, filling them flush with the surface.		
Preparation	<b>Disboxid 420 E.MI Primer:</b> Add the hardener to the base material ar (agitator: max. 400 rpm). Continue stirrin Pour the mixture in another clean contain	ng until a homogeneous, stre	ak-free colour shade is achieved.
	<b>Disboxid 448 Elastikschicht:</b> Add the hardener to the base material ar (agitator: max. 400 rpm).Continue stirring Pour the mixture in another clean contain	g until a homogeneous, strea	ak-free colour shade is achieved.
	<b>Disboxid 957 MultiColor-Chips:</b> The MultiColor-Chips are ready for use. amount of chips into a sufficiently large of	For application on connected container, e.g. mortar tub, an	l surfaces pour the required d stir manually.
	<b>Disboxid 948 ColorChips Glimmer:</b> The ColorChips Glimmer can be mixed in surfaces pour the required amount of ch manually.		
	<b>Disbothan 446 PU-Klarschicht:</b> The material is ready for use. For slip-ready for use of slip-ready for use of the slip-ready of the slip	ticking effects occur, if other	
Surface Coating System	Priming coat Absorbent, mineral substrates Prime mineral substrates with Disboxid 4 Consumption*: Disboxid 420 E.MI Primer: approx. 200 - Disboxid 942 Mischquarz: approx. 1,500 Finally sand/strew the whole surface of t	400 g/m <sup>2</sup> - 2,000g/m <sup>2</sup>	th Disboxid 942 Mischquarz.
	<i>Ceramic substrates</i> Level tile joints with Disboxid 448 Elastik Disboxid 952 Stellmittel. Consumption*: Disboxid 448 Elastikschicht: approx. 500 Disboxid 952 Stellmittel: approx. 10 - 20	) - 1,000 g/m²	. 2% by weight of set-up agent

	Scratch filler application (if necessary) Rough-textured substrates must additionally be equalised with a scratch filling. <i>Consumption*:</i> Disboxid 420 E.MI Primer: approx. 660 g/mm/m <sup>2</sup> Disboxid 942 Mischquarz: approx. 1,000 g/mm/m <sup>2</sup> Then sand/strew the whole surface of the freshly applied coating with Disboxid 942 Mischquarz. <i>Consumption*:</i> Disboxid 942 Mischquarz: approx. 1,500 – 2,000 g/m <sup>2</sup>
	Intermediate coat with colour-designing Cast mixed elastic coat Disboxid 448 Elastikschicht over the primed surface. Spread uniformly with a smoothing trowel or 4 mm V-notched trowel**. After waiting about 10 minutes deaerate crosswise with a spiked roller. <i>Consumption*:</i> Disboxid 448 Elastikschicht: approx. 2,000 g/m <sup>2</sup>
	Spray Disboxid 957 MultiColor-Chips by hopper-gun ("Flüstertüte", made by Putzmeister), with a working pressure of approx. 2 bar, onto the freshly deaerated intermediate coatings surface. For this purpose the surface may be walked on with hobnailed boots.
	Disboxid 957 MultiColor-Chips can be mixed with up to 3 % by weight of Disboxid 948ColorChips.
	The nozzle should be held slightly downward to guarantee a uniform spread of chips. The surface to be coated should initially be sprayed twice (thin uniform films of chips) and then be completely covered with an overage of MultiColor Chips. Connected surfaces should always be coated in one operation to avoid visible lapping. Do not apply during strong wind conditions. <i>Consumption*:</i> Disboxid 957 MultiColor-Chips approx. 800 - 1100 g/m <sup>2</sup>
	Note: In case of intensive chip colours, the intermediate coat should be applied without surface unevenness and visible trowel marks. To avoid the forming of visible shading the air-injection of MultiColor-Chips to the surface must be completed homogeneously and with overage. Protect air-injected chips from moisture.
	Allow the intermediate coat to harden, then slightly sandpaper the complete surface (dry abrasive paper, grit of 60 – 80) and sweep or remove the dust by suction cleaning.
	Note: Avoid all soiling and high mechanical loads of surfaces covered with chips. Workers shoes should be protected e.g. with clean clothes or fabric overshoes.
	<b>Finishing coat</b> Pour Disbothan 446 PU-Klarschicht evenly on the intermediate coat with a medium pile roller. <i>Consumption*:</i> Disbothan 446 PU-Klarschicht: approx. 400 - 600 g/m <sup>2</sup>
	Additional slip-resistant top sealing with glass pellets Pour Disbothan 446 PU-Klarschicht with an additional 10 % by weight of Disbon 947 SlideStop Rough and approx. 6 % by weight of thinner Disbocolor 499 evenly on the finishing coat, using PE-smoother. Then roll crosswise over the coating, using a rough roller (Moltoprenwalze, pore size approx. 5mm). For this purpose the surface may be walked on with hobnailed boots. In case of prolonged downtimes stir the material in between. <i>Consumption*:</i> Disbothan 446 PU-Klarschicht approx. 150 g/m <sup>2</sup> Disboxid 947 SlideStop Rough: approx. 15 g/m <sup>2</sup> Disbocolor 499 Verdünner approx. 9 ml/m <sup>2</sup>
	Note: To preserve the noble surface aspect, cleaning and care at regular intervals with normal household cleaning agents and cleaning methods is essential
	* The exact rate of consumption should be determined by a trial application on site.
	<ul> <li>** The given indication of consumption is only a recommendation. Notching depends on wear resistance of the tools, temperature, degree of filling and substrate conditions.</li> </ul>
Working Temperature	Material, Atmospheric, and Substrate Temperature: Min. 10 °C, max. 30 °C during application and drying (Disbothan 446 PU-Klarschicht can be stored at min. 5 °C). Relative humidity must not exceed 80 %. Substrate temperature should always be min. 3 ° C above the dew point temperature.
Drying Time	At 20 °C and 60% relative humidity the system products are recoatable after 16 – 24 hours. The finishing coat is walkable after 6 hours (only limited loads). Hardened after approx. 3 days for mechanical loads and completely hardened after approx. 7 days.
Tool Cleaning	Immediately after use or during longer breaks with Disboxid 419 thinner.

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	Advice
	Special hazards/risks, safety advice, Giscodes, disposal, VOC and CE labelling to EN 13 813 for each system product:
	Follow the corresponding Technical Information:
	Disboxid 420 E.MI Primer Disboxid 448 Elastikschicht Disbothan 446 PU-Klarschicht
German Certificates	<ul> <li>1-1273 Testing of anti-slip property R10 Material-Testing-Institute Hellberg, Adendorf</li> </ul>
Further Details	See Material Safety Data Sheets (MSDS) of: Disboxid 420 E.MI Primer Disboxid 448 Elastikschicht Disbothan 446 PU-Klarschicht
	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	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

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