

TECHNICAL INFORMATION

WIEREGEN-D80-Compact

2C-PUR Floor Coating ZTV-RHD-ST, RHD-pavements

APPLICATION FIELDS	WIEREGEN-D80-Compact is used for the production of reaction-resin based thin deck pavements (RHD) on steel substrates according to ZTV-RHD-ST, edition 1999.		
PRODUCT PROPERTIES	WIEREGEN-D80-Compact is a solvent-free coating material based on two-pack polyurethane. It can be applied quickly and easily and shows good spreading properties, even at low temperatures. Cured coatings show a very high mechanical resistance.		
Test certificates	Test report P 2002 dated 09/02/2000 of Polymerinstitut Forschungs- institut für polymere Baustoffe Dr. R. Stenner GmbH:		
	WIEREGEN-D80-Compact fulfils the requirements of the		
	 Additional Technical Contract Stipulations and Codes of Practice for the Manufacture of Reaction Resin-Bonded Thin Deck Pavements for Use on Steel (ZTV-RHD-ST) Technical Terms of Delivery (TL-RHD-ST) Technical Testing Instructions (TP-RHD-ST) for reaction-resin based thin deck pavements on steel for Pavements (filled and sanded with chrome-ore slag) Pedestrian footways, cycle paths, servicing cat-walks (filled and sanded with quartz sand) Safety kerbs and middle and outer caps (filled and sanded with quartz sand) 		
PRODUCT DATA	WIEREGEN-D80-Cor	npact <u>Curing</u>	agent
Product number	D80-7201	DX-16	
Colour	Grey		
Mixing ratio	5 parts by weight	1 part by weight	
Shelf life	In original cans at temperatures of 10 to 25 °C at least:		
	12 months	12 months	
Notos referring to		VOC limit values	Max VOC content of the product
Directive 2004/42/EC "Decopaint-Directive"	Subcategory as referred to in Annex IIA	(Phase II from 2010)	in its ready for use condition (including the max. amount of diluents as given in "Application methods")
=	J ("Two-pack reactive		

performance coatings")

Type SB

500 g/l

< 500 g/l



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TECHNICAL DATA

Parameter	Capacity	Value
	Adhesive tensile strength on steel following ZTV-SIB 90, Appendix 2	> 6.5 N/mm²
	Shore hardness A / D	>90 / 60
	Density of mixture	1.4 g/cm ³
	Density of mixture incl. quartz sand	1.8 g/cm ³
	Density of mixture incl. chrome-ore slag	1.85 g/cm ³
	Solid content EN ISO 3251	approx. 100 % by weight
	Application up to grade (pavements up to 10 mm)	12 %
	max. film thickness at safety kerbs	vertical up to 3 mm

Coating systems

	(kg/m²)	Sanding
1 Primer coating	theoretically 0.005	
GEHOPON-E24-Primer	in practice 0.3 to 0.5	
Minimal dry film thickness: 80 µm		
2 RHD-types of pavements		
2.1 Pedestrian footways, cycle paths, servicing cat-walks		Quartz 0.6 to 1.2 mm (in surplus)
WIEREGEN-D80-Compact grey D80-7201	approx. 0.9	Total consumption
1 : 1 filled with quartz 0.6 to 1.2 mm	approx. 0.9	approx. 8 to 10 kg/m ²
Nominal dry film thickness 4 to 6 mm Details see Appendix 1	(per mm DFT)	approx. 4 kg/m² remain
2.2 Pavements		Chrome-ore slag
WIEREGEN-D80-Compact grey	approx. 0.925	(in surplus)
1 : 1 filled with chrome-ore slag	approx. 0.925	Total consumption
Nominal dry film thickness 6 to 10 mm	(per mm DFT)	kg/m ²
Details see Appendix 2		approx. 5 kg/m² remain
2.3 Safety kerbs		Quartz
WIEREGEN-D80-Compact grey D80-7201	approx. 0.9	(in surplus)
1 : 1 filled with quartz 0.6 to 1.2 mm plus standardising agent RS 225	approx. 0.9	Total consumption approx. 8 to 10 kg/m ²
Nominal dry film thickness 2 to 3 mm Details see Appendix 3	(per mm DFT)	approx. 4 kg/m ² remain

Supplements and	Material	Graining
sanding materials	Quartz sand	0.6 to 1.2 mm
	Chrome-ore slag	1 to 3 mm



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INSTRUCTIONS FOR APPLICATION

This Technical Information contains only some essential instruction for the production of RHD pavements.

For the application and for the surveillance of the manufacture of the pavements it is in any case necessary to follow the detailed instructions of ZTV-RHD-ST *) as well as the form "Ausführungsanweisung nach den ZTV/TL-RHD-ST" (Application instructions according to ZTV/TL/RHD/ST).

For detailed notes concerning the manufacture of the three types of pavements (pedestrian footways, cycle paths, servicing cat-walks, pavements und safety kerbs) see our Appendices 1, 2 and 3.

*) Can be ordered at the FGSV Verlag, Konrad-Adenauer-Straße 13 in D-50996 Cologne.

Processing conditions

Air, surface and material temperatures	Allowed processing conditions according to ZTV-RHD-ST: Temperatures between +12 °C and +40 °C.		
	Optimal results will be achieved at temperatures of 15 to 25 °C.		
	The surface temperature of the parts to be coated must be at least 3 °C above the dew point of the surrounding air throughout the application. (see basic specification for corrosion protection EN ISO 12944-7)		
Relative humidity	Max. 80 % relative humidity.		
	The material may not be applied in the case of rain, condensation or mist. If necessary, suitable protection measures have to be taken (see ZTV-RHD-ST paragraph 5.4).		
Comments on processing			
Mixing	Mix WIEREGEN-D80-Compact thoroughly first with the enclosed curing agent DX-16, then with the supplement using a mechanical mixer (forced mixing) until a homogenous and unclouded mixture is produced. After pouring into another container the material is ready for use.		

Methods of application WIEREGEN-D80-Compact can be applied with a trowel or with a largesurface scraper.



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Cleaning of equipment	With thinner V-74.		
	Cured material must be removed mechanically.		
Attention	Like all coating materials based on isocyanate-curing polyurethane WIEREGEN-D80-Compact must be protected from water (rain, sweat other fluids) until water resistance is achieved.		
	The used additives have to be dry as well.		
Pot life		at +12 °C	at +30 °C
	Pot life	60 min	30 min
	Water resistance after	approx. 36 h	approx. 16 h
	Over-coating after	at least 5 days	at least 24 h
	Supplements, e. g. of quartz sand or chrome- life.	ore slag, pro	long the pot
Drying and curing time	Can be walked over after 24 hours at a tempera	ature of appro	ox. 20 °C.
	Full mechanical resistance after 7 to 1- temperature.	4 days der	pending on
SAFETY MEASURES	The curing agent produces an alkaline reaction on skin and mucous membrane (eyes). Soiling must be avoided. In case of direct contact clean thoroughly with water and soap.		
	The relevant data concerning safety measur	es can be f	ound in the

material safety data sheet of this product. The valid issue of the material safety data sheet is available from our website www.geholit-wiemer.de.

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