

TECHNICAL INFORMATION

RWE-Code-No.: GB-20-S-.... GEHOPON-E920-Metallgrund-Rapid

2C-EP Primer, quick curing

FIELDS OF APPLICATION	Quick curing two-pack protective primer coating for subsequent two-pack systems based on epoxy resin or polyurethane for bridges, steel structures, tanks and devices, for constructions exposed to aggressive atmosphere and similar objects.			
PRODUCT PROPERTIES	GEHOPON-E920-Metallgrund-Rapid is based on epoxy resin and shows excellent adhesion on steel surfaces.			
	The material cures quickly at normal temperature, but can also be used at low temperatures (minimum 0 °C). Due to its composition GEHOPON-E920-Metallgrund-Rapid is perfectly suited as primer coating for subsequent two-pack coating systems. Together with suitable two-pack top coatings, protective coating systems can be achieved with excellent resistance against chemicals, against aggressive atmosphere and the effects of natural weathering and with colour stability.			
	Temperature resistance (dry heat): 120 $^{\circ}\text{C}$ permanently, up to 150 $^{\circ}\text{C}$ short term			
PRODUCT DATA	GEHOPON-E920-Metallgrund-Rapid	RWE-Code-No.	Curing agent	
Product number and colour	E920-102 Sand yellow approx. RAL 1002	GB-20-S-1002	EX-920	
	E920-124 Ochre yellow approx. RAL 1024	GB-20-S-1024		
Mixing ratio	15 parts by weight		1 part by weight	
Form of delivery	Ready for brush application after mixture with curing agent.			

Shelf life At least 12 months in original cans at normal temperature.

Suitable thinner V-538

Theoretical parameters GEHOPON-E920-Metallgrund-Rapid, E920-124

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Density	Solid content	VOC-content		Solid content by volume	
(g/mL)	(weight %)	(weight %)	per 10 µm DFT* (g/m²)	(%)	(mL/kg)
1.65	81.5	18.5	4.7	65	395
DFT	Calculated wet-film	Consumption		Spreading rate	
(µm)	thickness (µm)	(kg/m²)		(m²/kg)	
120	184	0.305		3	.3

Remarks

• All values are relevant for the mixture in case of two-pack materials

DFT: Dry film thickness

• All values named are approximate values and relevant for the quality (colour). The values may differ slightly for other colours.

* baseline for calculation: consumption in g/m² at DFT 10 μ m



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Notes referring to Directive 2004/42/EC	Subcategory as referred to in Annex IIA		mit values I from 2010)	in its read (including the	content of the product dy for use condition max. amount of diluents as
"Decopaint-Directive"	J ("Two-pack reactive performance coatings")	5	00 g/l	given in *	Application methods") < 500 g/l
Coating systems	Type SB The coating system can be found in the current version of the RWE directive for corrosion protection.				
INSTRUCTIONS FOR APPLICATION					
Surface preparation	Steel surfaces:				
	Blast-cleaning in accordance with EN ISO 12944-4, surface preparation grade Sa 2 $\frac{1}{2}$.				
Processing conditions					
Air and surface temperature	Optimal results at temperatures of 5 to 25 °C, not below 0 °C				
Relative humidity	Max. 80 % relative humidity				
	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)				
Comments on processing					
Mixing	Mix thoroughly with the enclosed quantity of curing agent, preferably with a mechanical mixer. Material must be stirred again after 15 minutes. Then the mixture is ready for use.				
Application methods	Means of application / para	ameters	recommended dry film thickr working ope	less per	Addition of thinner V-538
	Airless spraying Nozzle diameter: 0.38 to Material pressure: approx. 150 to 2		120 μn	n	up to 5 %
	High pressure/air spraying Nozzle diameter: 1.5 to 2 Pressure: 3 to 4 b	2.0 mm	120 μn	n	4 to 8 %
	Roller coating / brush appli	ication	40 to 60	μm	up to 2 %
	In case of roller coating / brush application several working operations can be necessary to obtain a uniform layer thickness and appearance. Among other things this depends on the colour, the processing procedures and equipment, the ambient conditions and the geometry of the parts to be coated.				
Remarks					
	modifications.				



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Cleaning of equipment	With thinner V-538			
Pot life	Approximately 4 hours (depending on temperature)			
Drying and curing times	Related to a DFT of 80 µm and air/surface temperatures of			
	20 °C	10 °C	5 °C	
Dry to touch (drying stage1):	approx. 30 minutes	approx. 1 hour	approx. 1.5 hours	
Tack free (drying stage 3):	approx. 1.5 hours	approx. 2.5 hours	approx. 3.5 hours	
Over-coating interval (drying stage 6):	3 to 4 hours	5 to 6 hours	6 to 7 hours	
	(drying stage according to EN ISO 9117-5)			
■ SAFETY MEASURES	The curing agent prod	uces an alkaline reactic	on 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 measures can be found 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.

The statements made here are based on the present state of our knowledge. We do not assume liability for damages resulting from the use of the material or from any advice given by our employees. In this respect, any advice given by our employees has to be seen as not binding. The processor is responsible for the supervision of construction, the maintaining of process guidelines and the observation of the established rules of techniques, even if our employees are present at the time our material is being applied.

This information is subject to modifications due to technical improvements. The latest edition of this information replaces all previous issues.