Technical Data Sheet Product number 1160







# Epoxy ST 100

Transparent priming and mortar resin

	Availability						
	Quantity per pallet	168	120				
	Packaging unit	1 kg	2,5 kg	10 kg	25 kg	240 kg	720 kg
	Type of container	Multi-chamber bag	Multi-chamber bag	Tin bucket	Tin bucket	Drum	Drum
	Container code	01	03	11	26	71	70
	Art. no.						
	1160				•		
	6361	•	•				
720 kg drums on request							

Application rate	See application examples			
Range of use	<ul> <li>Primer, bonding layer, levelling layer</li> <li>Producing compression-resistant mortars, flow coatings</li> <li>Base layer for blinded covers</li> <li>Primer in the Remmers Deck OS 8 classic system</li> </ul>			
Property profile	<ul> <li>Can be subjected to mechar</li> <li>Can be subjected to chemic</li> <li>Good penetration character</li> <li>Contains no plasticisers, no</li> </ul>	al loads istics	henols	
	<ul> <li>Physiologically harmless on</li> <li>Suitable for use as primer w</li> </ul>	ce fully cured		rs PU and EU coatings
Characteristic data of the product		ce fully cured		rs PU and EU coatings Mixture
	Suitable for use as primer w	ce fully cured ithout broadcasting	underneath Remme	
	<ul> <li>Suitable for use as primer w</li> <li>On delivery</li> </ul>	ce fully cured vithout broadcasting Component A	underneath Remme Component B	Mixture
	<ul> <li>Suitable for use as primer w</li> <li>On delivery</li> <li>Density (20 °C)</li> </ul>	ce fully cured vithout broadcasting Component A 1.12 g/cm <sup>3</sup> 870 mPa s	underneath Remme Component B 1.03 g/cm <sup>3</sup>	<b>Mixture</b> 1.10 g /cm <sup>3</sup>

Epoxy ST 100





	The values stated represent typical char product specifications.	acteristic data of the product and are not to be understood as bindin		
Certificates	<ul> <li>Application directions Remmers Deck OS 8 classic</li> <li>Fire test (classification) Remmers Deck OS 8 classic</li> <li>Rear moisture penetration</li> <li>Slip resistance R11 V4</li> </ul>			
	> Brandprüfung (Klassifizierung)			
Possible system products	> PUR Uni Color (6800)			
	<ul> <li>Epoxy OS Color (6980)</li> <li>Epoxy Color Top (6101)</li> </ul>			
	Epoxy Color Top (6191)			
Preparation	Substrate requirements			
	The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.			
	The tensile strength of the surface of the substrate must be at least 1.5 N/mm <sup>2</sup> on average (smallest individual value of at least 1.0 N/mm <sup>2</sup> ), and the compressive strength must be at least 25 N/mm <sup>2</sup> .			
	When used in the OS 8 system, the tensile strength of the substrate must be at least			
	2.0 N/mm <sup>2</sup> on average (smallest individual value of at least 1.5 N/mm <sup>2</sup> ).			
	-	aviour in conjunction with rear moisture penetration		
	according to DIN EN 13578 in the C Substrates must have reached the	eir moisture balance and must also be protected against		
	moisture penetration from the rev			
	Concrete	max. 4 m% moisture		
	Cement screed	max. 4 m% moisture		
	Anhydrite screed	max. 0.3 m% moisture		
	Magnesite screed	2-4 m% moisture		
	In the case of anhydrite and magnesite screeds, moisture cannot be permitted to penetrate from building elements or the ground.			
	As a general principle, systems which permit the diffusion of water vapour are			
	recommended for use with anhyd	rite and magnesite screeds.		
	Substrate preparation			
	Prepare the substrate by suitable means, e.g. steel ball jetting or diamond grinding, so			
	that it meets the requirements specified above. Broken out or missing areas in the substrate should be filled flush with the surface using			
	Remmers PCC systems or Remmer			
Production of the	Multi-chamber bag			
mixture		he perforation and remove the transparent multi-		
	_	g strip on the bag. Then mix the two components		
A : B 75 : 25	together by kneading the content	s of the bag intensively (approx. 60 seconds).		
	Combi-container			
	Add the entire quantity of the hardener (component B) to the basic compound			

(component A).

# Epoxy ST 100

Technical Data Sheet Product number 1160





Mix thoroughly with a slow-speed electric mixer (approx. 300 - 400 rpm). Pour the mixture into a separate container and mix again thoroughly. Mix for at least 3 minutes. Insufficient mixing is indicated by streaks forming.

Mixing	ratio	(A : B)	
--------	-------	---------	--

3) 75 : 25 parts by weight

In the case of filled systems, slowly stir the corresponding quantity of filler into the reaction resin mixture and mix thoroughly.

As soon as the mixture is ready to use, apply it in full to the prepared surface and spread it using suitable tools.

## Directions



For professional users only!

# Conditions for use

Temperature of the material, the substrate and the ambient air must be between 8 and 30 °C.

During the curing process, the applied material should be protected from moisture which could impair the surface and impair the adhesion.

Relative humidity should not exceed 80%.

The temperature of the substrate must be at least 3 °C above the dew point temperature during application and curing.

# Working time (+20 °C)

Approx. 25 minutes

# Waiting time (+20 °C)

Waiting times between coats should be at least 12 hours and max. 48 hours. If waiting times are longer due to site conditions, the surface of the previous coat must be broadcast in a specific manner with fire-dried quartz sand (e.g. grain size 0.3-0.8 mm) while fresh or sanded back until stress-whitening begins to occur before proceeding to the next step.

## Drying time (+20 °C)

Foot traffic after 1 day, mechanically loadable after 3 days, full loading capacity after 7 days.

Setting may be accelerated by adding ACC H. The associated directions for use are available upon request.

As a general principle, higher temperatures will reduce and lower temperatures will increase the times stated.

# Application examples Impregnation/strengthening

The mixed resin is diluted with up to 20% by mass of Remmers V 101 Thinner and applied to the surface until saturation, using a suitable tool, e.g. rubber blade, and then worked into the substrate with an epoxy roller.

It may be necessary to apply several layers.

Application rate approx. 0.30-0.50 kg/m2 of binding agent (depending on substrate)





#### Priming

The mixed resin is generously applied to the surface. Distribute with a suitable tool, e.g. rubber blade, and work into the substrate with an epoxy roller so that pores in the surface of the substrate are completely filled.

It may be necessary to apply several layers.

Application rate

approx. 0.30-0.50 kg/m2 of binding agent (depending on
substrate)

## Levelling layer/scratch coat

The filled material (up to 1: 1 parts by weight) is applied to the primed surface and distributed with a suitable trowel. If necessary, roll over with a spiked roller.

Application rate	per mm of layer thickness: approx. 0.85 kg/m² of binding
	agent
	and 0.85 kg/m² of Selectmix 01/03

## Synthetic resin mortar

The filled material (up to 1 : 10 parts by weight) is distributed with a smoothing trowel and smoothed.

Application rate	per mm of layer thickness: approx. 0.2 kg/m² of binding
	agent
	and 0.2 kg/m² of Selectmix 25

## Base layer for blinded coatings

The filled material (up to 1: 1 parts by weight) is applied to the primed surface and distributed with a suitable toothed trowel or toothed rubber blade. If necessary, roll over with a spiked roller.

Fire-dried quartz sand is then broadcast liberally over the base layer while it is still fresh. Remove any loose, surplus sand after hardening.

Application rate	per mm of base layer thickness
	approx. 0.85 kg/m² of binding agent
	and 0.85 kg/m² of Selectmix 01/03

## Notes

Tools / Cleaning

Unless otherwise specified, all of the values and application rates given above have been determined under laboratory conditions (20 °C). Slight deviations from these values may arise if the product is worked with on site. Primers must always be applied so that all pores are filled; it may therefore be necessary to increase the application rate or to apply a second coat. As mineral substrates have different absorption capacities, impregnated surfaces have a spotted appearance. Not suitable for high-visibility surfaces. When coating continuous surfaces, only use materials with the same batch number as slight differences in colour, gloss and texture may occur. Abrasive mechanical loads leave traces of wear. Epoxy resins are generally not colourfast when exposed to UV light or weather. Observe the corresponding test certificate for OS 8 systems. Further notes on working, system construction and maintenance of the listed products can be found in the latest Technical Data Sheets and the Remmers system recommendations. Smoothing trowel, toothed trowel, toothed rubber blade, rubber wiper, epoxy roller, spiked roller, mixing equipment, positive mixer if required

More detailed information can be found in the Remmers Tool Programme.

**Technical Data Sheet** Product number 1160







	Clean tools, equipment and splashed material immediately while fresh with V 101 Thinner. Take suitable protective and waste disposal measures when cleaning.
Storage / Shelf life	If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 12 months.
Safety data / Regulations	For professional users only! For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet and the brochure entitled "Epoxy Resins in the Construction Industry and the Environment", issued by Deutsche Bauchemie e.V. (2nd edition 2009).
Personal protective equipment	This information can be obtained from the current Safety Data Sheets and/or the relevant professional associations.
Disposal	Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.
VOC content as per the "Decopaint" Directive (2004/42/EC)	EU limit for the product (Cat. A/j): max. 500 g/l (2010). This product contains < 500 g/l VOC.
Declaration of performance	> 1160 Declaration of performance no. GBIII 012-6

# Epoxy ST 100

#### Technical Data Sheet Product number 1160





CE marking

1119, 1658	
Remmers GmbH	
Bernhard-Remmers-Straße 13, D-49624 Lör	ningen
10	
GBIII 012_6	
EN 1504-2:2004	
1160	
Surface protection products – Coating	
Abrasion resistance:	weight loss < 3000 mg
Permeability to CO <sub>2</sub> :	s <sub>D</sub> > 50 m
Water vapour permeability:	class III
Capillary absorption and permeability to water:	w < 0.1 kg/(m <sup>2</sup> h <sup>0,5</sup> )
Thermal compatibility:	≥ 2.0 (1.5) N/mm <sup>2</sup> *
Resistance to severe chemical attack:	reduction in hardness < 50 %
Impact resistance:	Class I
Adhesion strength by pull off test:	≥ 2.0 (1.5) N/mm <sup>2</sup> *
Reaction to fire:	Class B <sub>fl</sub> - s1
Skid resistance:	Class III
* The value in brackets is the smallest permitted va	alue per reading
Remmers GmbH	
Bernhard-Remmers-Straße 13, D-49624 Lör	ningen
10	
GBIII 012_6	
EN 13813:2002	
1160	
Synthetic resin screed for use internally in	buildings
Reaction to fire:	E <sub>fl</sub>
Release of corrosive substances:	SR
Wear resistance:	≤ AR 1
Bond strength:	≥ B 1.5

≥ IR 4

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

Impact resistance:

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.