



Epoxy EP 100

Primer and mortar resin

Availability			
Quantity per pallet			
Size / Quantity	30 kg	619,6 kg	
Type of container	Tin bucket	Drum	
Container code	31	69	
Art. no.			
6155	■	■	

Please note: Art. No. 615569 consists of 2 drums of component A and 1 drum of component B.

Application rate See application examples

Range of use

- Unpigmented epoxy resin as a primer underneath coatings
- For the production of compression-resistant mortars

Property profile

- Can be subjected to mechanical loads
- Good penetration characteristics
- Contains no plasticisers, nonylphenols or alkylphenols
- Coating compatibility test
- Suitable for use as a primer without broadcasting under Remmers EP coatings
- Suitable for use as a primer for light (under PUR Deco Color) to moderate loads (under PUR Uni Color)

Characteristic data of the product

	Component A	Component B	Mixture
On delivery			
Density (20 °C)	1.12 g/cm ³	1.03 g/cm ³	1.09 g/cm ³
Viscosity (25 °C)	660 mPa s	200 mPa s	480 mPa s
Once fully cured			
Flexural tensile strength	21 N/mm ² *		
Compressive strength	89 N/mm ² *		

* Epoxy resin mortar 1 : 10 with standard sand
 Note: the hardener has a brownish colour.
 The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

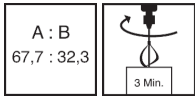
Preparation

- **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/mm² on average (smallest individual value of at least 1.0 N/mm²), and the compressive strength must be at least 25 N/mm².
 Substrates must have reached their moisture balance and must also be protected against moisture penetration from the reverse side, including during use.

Concrete	max. 4 m% moisture
Cement screed	max. 4 m% moisture
- **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 RM systems (RM = Repair Mortar) or Remmers EP mortars.



Production of the mixture



■ Combi-container

Add the entire quantity of the hardener (component B) to the base compound (component A).
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	67.7 : 32.3 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 all of it to the prepared surface and spread it using a suitable tool.

Directions



For professional users only!

■ Conditions for use

Temperature of the material, air and substrate: from min. +8 °C to max. +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. 30 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, mechanical loading after 3 days, full loading capacity after 7 days.

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

Application examples

■ Priming

Apply the mixed resin generously 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/m ² binder (depending on the substrate)
------------------	---

■ Levelling layer/scratch coat

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

Application rate	Per mm layer thickness: approx. 0.85 kg/m ² binder and 0.85 kg/m ² Selectmix 01/03
------------------	--

■ Synthetic resin mortar

Spread and smooth out the filled material (up to 1 : 10 parts by weight) with a smoothing trowel.

Application rate	Per mm layer thickness: approx. 0.2 kg/m ² binder and 2.0 kg/m ² Selectmix 0/10
------------------	---

Notes

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.
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.



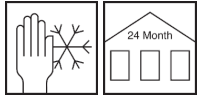
Tools / Cleaning



Smoothing trowel, notched trowel, notched scraper, rubber blade, epoxy roller, spiked roller, mixing apparatus, compulsory mixer if necessary

More detailed information can be found in the Remmers Tool Programme.
Clean tools, equipment and splashed material immediately while fresh with V 101.
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 24 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. (3rd edition 2022).

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 value for the product (Cat. A/j): max. 500 g/l (2010).
This product contains < 500 g/l VOC.

Declaration of performance

> **Declaration of performance**

Declaration of conformity



Remmers GmbH (CE)
Bernhard-Remmers-Str. 13, D – 49624 Lönningen
Remmers (UK) Limited (UKCA)
1 & 2 Garden Suites, Coleshill Manor Campus, Birmingham B46 1DL (GB)

18 (CE); 23 (UKCA)
GBIII 133_2
EN 13813:2002
6155

Synthetic resin screed for use internally in buildings

Reaction to fire:	E _{fl}
Release of corrosive substances:	SR
Wear resistance:	≤ AR 0.5
Bond strength:	≥ B 1.5
Impact resistance:	≥ 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

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.