Epoxy ZE 100

Low-emission priming and mortar resin

	Availability	
	Quantity per pallet	
	Size / Quantity	**25 kg**
	Type of container	Tin bucket
	Container code	26
	Art. no.	
	6905	■

Application rate

See application examples

Range of use

- Primer, bonding layer, levelling layer
- Producing compression-resistant mortars, flow coatings
- Base layer for blinded covers

Property profile

- Benzyl alcohol free
- Low emissions
- Can be subjected to mechanical loads
- Contains no plasticisers, nonylphenols or alkylphenols
- Physiologically harmless once fully cured
- Suitable for use as primer without broadcasting underneath Remmers PU and EU coatings

Characteristic data of the product

	Component A	Component B	Mixture
Density (20 °C)	1.10 g/m²	1.03 g/cm³	1.07 g/m²
Viscosity (25 °C)	600 mPa s	700 mPa s	700 mPa s

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Preparation

- **Substrate requirements**

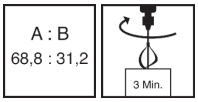
The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.
The tensile strength of the surface of the substrate must be at least 1.5 N/mm² on average (smallest individual 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 (A : B)	68.8 : 31.2 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**
  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.
  Temperature of the material, air and substrate: from min. +12 °C to max. +30 °C.

- **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, mechanical loads after 3 days, full loading capacity after 7 days. At low temperatures, foot traffic after 1.5 days (+12 °C) or 2 days (+8 °C).

  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

- **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/m² 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/m² binder and 0.85 kg/m² 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/m² binder and 2.0 kg/m² Selectmix 0/10

- **Base layer for blinded coatings**
  Apply the filled material (up to 1 : 1 parts by weight) to the primed surface and distribute with a suitable toothed trowel or toothed rubber blade. If necessary, roll over with a spiked roller.
  Liberally broadcast fire-dried quartz sand over the base layer while it is still fresh.
  Remove any loose, excess material after hardening.

Application rate	Per mm base layer thickness: approx. 0.85 kg/m² binder and 0.85 kg/m² Selectmix 01/03

Notes

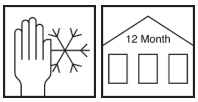
Unless otherwise specified, all of the values and application rates given above have been determined under laboratory conditions (20 °C). Slight deviations from these values may arise if the product is worked with on site.
Primers must always be applied so that all pores are filled; it may therefore 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.
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 spreader, rubber scraper, epoxy roller, spiked roller, mixing device, 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 12 months.

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 conformity

CE UKCA

Remmers GmbH (CE)
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Remmers (UK) Limited (UKCA)
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23 (CE); 23 (UKCA)
GBIII 172_2
EN 13813:2002
6905

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