Epoxy FAS 100

Special, substrate-tolerant primer

	Availability			
	Quantity per pallet	120		
	Size / Quantity	**2,5 kg**	**10 kg**	**25 kg**
	Type of container	Multi-chamber bag	Tin canister	Tin canister
	Container code	03	11	26
	Art. no.			
	0916		■	■
	6364	■		

Application rate

See application examples

Range of use

- Primer, bonding layer on difficult substrates, e.g. tiles and various metals
- Levelling layer
- Producing compression-resistant mortars, flow coatings
- Base layer for blinded covers
- Production of pressure-resistant mortar for height levelling, for use as repair mortar and as epoxy screed in composites and on separating layers

Property profile

- Excellent adhesion on many substrates
- Suitable on oily substrates or ones with residual moisture
- Can be subjected to mechanical loads
- High compressive strength and flexural strength
- Physiologically harmless once fully cured
- Suitable for use as primer without broadcasting underneath Remmers PU and EU coatings
- Designed for the use of non-dried screed sand
- Economically efficient thanks to high degree of filling

Characteristic data of the product

- On delivery

	Component A	Component B	Mixture
Density (20 °C)	1.16 g/cm³	0.97 g/cm³	1.08 g/cm³
Viscosity (25 °C)	950 mPa s	750 mPa s	1100 mPa s

- Once fully cured

Flexural tensile strength	Approx. 22 N/mm² *
Compressive strength	Approx. 76 N/mm² *

* Epoxy resin mortar 1 : 10 with Selectmix RMS

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

Certificates

› Classification report for reaction to fire

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.
The substrate can be slightly moist but without liquid film on the surface and should not be exposed to major temperature swings (vapour pressure). In this case the primer must always be applied twice.

Concrete	max. 6 m% moisture

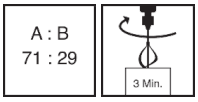
Cement screed	max. 6 m% moisture

The substrate must be protected from exposure to moisture from underneath during utilisation.
The suitability of the coating on steel, stainless steel, aluminium, ceramic covers must be tested beforehand, if necessary trial surfaces must be set up.

- 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 Remmers EP mortars.
Bonded screed:
Prime the surface with a suitable primer, such as Remmers Epoxy ST 100, and broadcast it generously with Quartz 07/12 (approx. 2 kg/m²).
Alternatively, it is possible to work wet-on-wet.
Pour the material onto the prepared surface and spread using a suitable tool, e.g. a notched trowel.
Screed on separation layer/insulating layer:
The separation layer/insulation layer must be suitable for the use in question. In this application case, no primer is needed.
The current technical regulations must be observed.

Production of the mixture



- Multi-chamber bag

Open the outer packaging along the perforation and remove the transparent multi-chamber bag. Remove the dividing strip on the bag. Then mix the two components together by kneading the contents of the bag intensively (approx. 60 seconds).

- 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)	71 : 29 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.
Screed:
The binder:filler ratio is dependent on the use case.
Add all of the mixed binder to the filler and mix together thoroughly.
When using dry fillers, these must be mixed with 2% by mass of water before adding the binder. The ideal quantity of water to be added depends on the filler being used and must be determined in preliminary trials.
As soon as the mixture is ready to use, apply all of it to the prepared surface and spread it using a suitable tool.
Afterwards, smooth the surface manually or by machine, and compact the surface using suitable tools.

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.
Good ventilation must be ensured so that water can be released into the air.

- Working time (+20 °C)

Approx. 30 minutes

- Waiting time (+20 °C)

Waiting times between the application of each coat: min. 16 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.
The pore filler can usually be applied after 16 hours.
The screed must be completely dry and fully hardened before coating.

- 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.

Application rate	Approx. 0.30 - 0.50 kg/m² of binder (depending on the 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 base layer thickness: approx. 0.85 kg/m² of binder 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.
Bonded screed from 10 mm: After the material has been mixed with filler in a ratio of up to 1:20 parts per weight, distribute it and level it off, then compact and work the material by smoothing until an even surface is achieved.
Screed on separation layer/insulation layer > 30 mm: After the material has been mixed with filler in a ratio of up to 1:25 parts per weight, distribute it and level it off, then compact and work the material by smoothing until an even surface is achieved.

Application rate	Per mm of layer thickness: approx. 0.2 kg/m² of binder and 2.0 kg/m² of Selectmix RMS Bonded screed from 10 mm: Per mm of layer thickness: approx. 0.1 kg/m² of binder and 2.0 kg/m² of suitable filler Screed on separation layer/insulating layer > 30 mm: Per mm of layer thickness: approx. 0.1 kg/m² of binder and approx. 2.0 kg/m² of suitable filler

- 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.
Then 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 of base layer thickness: approx. 0.85 kg/m² of binder and 0.85 kg/m² of 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.
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.
The compressive and flexural strength of the screed on separation layers/insulating layers are highly dependent on the proportion of filler and binder used. Adapt these proportions according to the application at hand.
The worksheet BEB KH 505 from the German Federal Association of Screed and Floor Covering must be observed.
When using a wet filler (e.g. moistened Selectmix RMS or screed sand), the screed must have reached its equilibrium moisture or must be completely dry before the coating or covering is applied.
Covering the surface (e.g. with foil) significantly extends the time it takes for the material to be ready to be covered.
When using screed sand, the working properties and the strengths that can be achieved are highly dependent on the specific composition of the local screed sand and must be tested in advance.

Tools / Cleaning

Smoothing trowel, toothed trowel, toothed squeegee, rubber squeegee, epoxy roller, spiked roller, mixing equipment, if necessary a positive mixer.

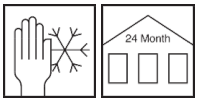
More detailed information can be found in the Remmers Tool Programme.
Clean tools, equipment and splashed material immediately while fresh with V 101 Thinner.
Take suitable protective and waste disposal measures when cleaning.

Remmers tools

- Patentdisperser (4747)
- Squeegee (5035)

- Glättkelle (4117)
- Epoxy Roller (5045)

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

Declaration of performance

- Declaration of performance (EN)

Declaration of conformity

CE

Remmers GmbH
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GBIII 015_4
EN 13813:2002
0916

Synthetic resin screed for use internally in buildings

Reaction to fire:	E_{fl}
Release of corrosive substances:	SR
Wear resistance:	≤ AR 1
Bond strength:	≥ B 1.5
Impact resistance:	≥ IR 4