

Epoxy Primer PF

Pigmented primer and base layer

Colour	Availability		
	Quantity per pallet		
	Size / Quantity	**12 kg**	**30 kg**
	Type of container	Tin bucket	Tin bucket
	Container code	13	31
	Art. no.		
silver grey (approx. RAL 7001)	1224	■	■
light grey (approx. RAL 7035)	1225	■	■
neutral	1226	■	■

Application rate

See application examples

Range of use

- Pigmented primer, levelling layer
- Base layer for blinded covers
- Primer in the systems Remmers Deck OS 8, OS 11a-II, OS 11b-II and the system Remmers Deck OS 10 M
- Primer in the system Remmers Deck OS 14 in accordance with the maintenance guideline (2016 draft)

Property profile

- Can be subjected to mechanical loads
- Excellent adhesion on concrete and cement screed
- Coating compatibility test
- Contains no plasticisers, nonylphenols or alkylphenols
- Physiologically harmless once fully cured
- Suitable for use as primer without broadcasting underneath Remmers PU and EP coatings

Characteristic data of the product

■ **On delivery**

	Component A	Component B	Mixture
Density (20 °C)	1.62 g/cm³	1.05 g/cm³	1.50 g/cm³
Viscosity (25 °C)	2800 mPa s	100 mPa s	900 mPa s

■ **Once fully cured**

Flexural tensile strength	> 23 N/mm² *
Compressive strength	> 72 N/mm² *

* Epoxy resin mortar 1 : 5 with standard sand

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

Additional information

› **Sustainability Data Sheet**

Possible system products

› **Epoxy TX Color (6932)**
› **Epoxy SIC Color (6844)**
› **Epoxy Color Top (6191)**

Preparation

■ **Substrate requirements**

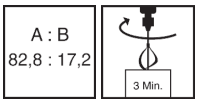
The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.
The tensile strength of the surface of the substrate must be at least 1.5 N/mm² on average (smallest individual value of at least 1.0 N/mm²), and the compressive strength must be at least 25 N/mm².

When used in the OS 8, OS 11 or OS 14 system in accordance with the Technical Rule 'Maintenance of Concrete Structures' (May 2020, Part 1), the average surface tensile strength must be at least 1.5 N/mm² (with a minimum individual value of 1.0 N/mm²) and the surface roughness of the substrate must be at least RT0.3.
When used in the OS 8 system, the tensile strength of the substrate must be at least 2.0 N/mm² on average (smallest individual value of at least 1.5 N/mm²).
Test report available on bond behaviour in conjunction with rear moisture penetration according to DIN EN 13578 in the OS 8 system.
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 shot blasting, so that it meets the specifications listed 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

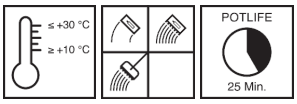


Combi-container
Add the entire quantity of the hardener (component B) to the base compound (component A).
Mix thoroughly with a slow-speed electric mixer
(approx. 300 - 400 rpm).
Pour the mixture into a separate container and mix again thoroughly.
Mix for at least 3 minutes.
Insufficient mixing is indicated by streaks forming.

Mixing ratio (A : B)	82.8 : 17.2 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
Temperature of the material, air and substrate: from min. +10 °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. 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 lower temperatures: foot traffic after 2 days (+8 °C).

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.
Additional priming is required on highly absorbent or open-pored substrates.

Application rate	approx. 0.40 - 0.60 kg/m² binder (depending on the substrate)

Levelling layer/scratch coat
Pour the material – filled up to 1 : 0.5 parts by weight – onto the prepared surface, spread using a suitable trowel, and roll over again with a spiked roller if necessary.

Application rate	Per mm layer thickness: approx. 1.20 kg/m² binder and 0.60 kg/m² Selectmix 01/03

Base layer for blinded coatings
Pour the material – filled up to 1 : 0.5 parts by weight – onto the prepared surface, spread using a suitable toothed trowel/notched spreader, and roll over again with a spiked roller if necessary.
Liberally broadcast fire-dried quartz sand over the base layer while it is still fresh.
Remove any loose, excess material after hardening.

Application rate	min. 0.8 - 1.0 kg/m² (plus filler)

Notes

Unless otherwise specified, all of the values and application rates given above have been determined under laboratory conditions (20 °C) using standard colours. 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.
From experience, slightly opaque colours (e.g. yellow, red or orange, etc.) have a varnishing effect. Please consider this when choosing and assembling systems.
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.
Observe the instructions for use of the corresponding Remmers Deck OS 11 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.

Tools / Cleaning



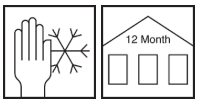
Smoothing trowel, toothed trowel, notched spreader, rubber scraper, epoxy roller, spiked roller, mixing equipment, positive mixer if necessary

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.

Remmers tools

› **Patentdisperser (4747)**

Storage / Shelf life



If stored unopened in the original container and kept cool, dry and protected from frost, min. 12 months (component A)/min. 24 months (component B).

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 product residues must be disposed of in the original packaging in accordance with the applicable regulations. Do not pour liquid coating or residues down the drain, not even when cleaning tools. Must not be disposed of with household waste. Avoid release of the product, e.g. as dust, during application. Completely emptied packaging must be sent for recycling.

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

CE UKCA

1119, 1658 (CE); 0836 (UKCA)

Remmers GmbH (CE)
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Remmers (UK) Limited (UKCA)
1 & 2 Garden Suites, Coleshill Manor Campus, Birmingham B46 1DL (GB)

15 (CE); 22 (UKCA)
GBIII 069_5
EN 1504-2:2004
1224

Surface protection products – Coating

Abrasion resistance:	weight loss < 3000 mg
Permeability to CO_2:	s_D > 50 m
Water vapour permeability:	class III
Capillary absorption and permeability to water:	w < 0.1 kg/(m² $h^{0.5}$)
Thermal compatibility:	≥ 1.5 (1.0) N/mm² *
Resistance to severe chemical attack:	reduction in hardness < 50 %
Crack bridging ability:	OS 11a-II B 4.2 (-20 °C) OS 11b-II B 3.2 (-20 °C)
Impact resistance:	Class I
Adhesion strength by pull off test:	≥ 1.5 (1.0) N/mm² *
Reaction to fire:	OS 8 and OS 11b-II class B_{fl}-s1 OS 11a-II class C_{fl}-s1
Skid resistance:	class III

* The value in parentheses is the smallest permitted value per reading

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GBIII 069_5
EN 13813:2002
1224

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.