Epoxy Universal

Crack-bridging protective coating

Colour	Availability			
	Quantity per pallet			
	Size / Quantity	**5 kg**	**10 kg**	**30 kg**
	Type of container	Tin bucket	Tin bucket	Tin bucket
	Container code	06	11	31
	Art. no.			
black	5590	■	■	■
grey	5592	■	■	■

Application rate

According to authorisation

Range of use

- Crack-bridging protective coating for reinforced concrete tanks
- Anti-corrosion coating for steel and galvanised steel
- Coating for liquid manure/silage and biogas facilities, tanks and horizontal silo walls (AbZ Z-59.17-436)

Property profile

- With static crack-bridging ability
- Can be subjected to chemical loads
- Application by brush or spraying
- Contains solvents

Characteristic data of the product

- **On delivery**

	Component A	Component B	Mixture
Density (20 °C)	1.37 g/cm³	1.08 g/cm³	1.30 g/cm³
Viscosity (25 °C)	2000 mPa s	5650 mPa s	1900 mPa s

- **Once fully cured**

[pk_aus_rissueberbrueckung]	0.3 mm (as per DIBt authorisation)

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

Certificates

- **General building authority approval (Z-59.17-436)**
- **Certificate of conformity Z-59.17-436**

Additional information

- **Application guideline**

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 adhesive pull strength of the surface after priming must be at least 1.5 N/mm² on average (smallest single value min. 1.0 N/mm²), compressive strength at least 25 N/mm².
For works within the framework of the general building inspectorate approval, the substrates must correspond to the requirements of the approval and the system products mentioned therein must be used.

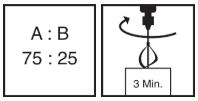
Concrete	max. 4 m% moisture

- **Substrate preparation**

Prepare the substrate by suitable means, e.g. steel ball jetting or diamond grinding, so that it meets the requirements specified above.

Before coating, close pipes and pores using a stable material, e.g. Epoxy MT 100 with the addition of a standardising agent (Add TX).
Remove rust and rolling skin from steel surfaces e.g. by sandblasting SA 2 1/2.

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.
When working with airless spraying equipment (e.g. Storch SL 1100 – piston stroke pump), the prepared mixture can be mixed with up to 20% by mass of Thinner V 103 to achieve the spraying viscosity.

Mixing ratio (A : B)	75 : 25 parts by weight

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. +25 °C.
After application, protect the surface for at least 48 hours from exposure to water and moisture.
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. 60 minutes

Waiting time (+20 °C)
Waiting times between coats should be at least 12 hours and max. 48 hours.
If conditions on site require longer waiting times, the surface must be slightly sanded (until it turns white) before the following application.

Drying time (+20 °C)
Foot traffic after 12 hours, mechanical loading after 2 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

Coating
Apply the material to the prepared surface and spread evenly using a suitable tool, e.g. epoxy roller, paintbrush, flat brush or airless sprayer (e.g. Storch SL 1100 piston pump).
When applying with an airless sprayer, remove the filters in the intake nozzle and the gun.
When working with airless spraying equipment (e.g. Storch SL 1100 – piston stroke pump), the prepared mixture can be mixed with up to 20% by mass of Thinner V 103 to achieve the spraying viscosity.
(Spray nozzle 527, pressure approx. 190 bar depending on the airless spraye used).
Three-layer application in alternating colours (black/black-red/black) according to test certificate.

Application rate	1.2 kg/m² binder in three coats

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.
Not suitable for frequent or constant thermal loads > 60 °C.
The maximum application quantity of 0.40 kg/m² per coat must not be exceeded, otherwise the adhesion of intermediate layers may be affected.
In case of repairs on the surface or working up to existing surfaces, there will be a visible transition in appearance and texture.
Highly abrasive loads lead to increased wear.
Suitable for vehicle traffic with rubber tyres; not suitable for vehicle loads with metal or polyamide tyres nor for dynamic point loads.
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

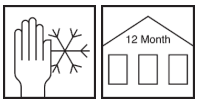
Epoxy roller, brush, surface brush or airless spraying equipment (e.g. Storch SL 1100 – piston pump), suitable mixing equipment

More detailed information can be found in the Remmers Tool Programme.
Clean tools and remove any contamination immediately after use and while fresh using Thinner V 103.
Take suitable protective and waste disposal measures when cleaning.

Remmers tools

- **Patentdisperser (4747)**
- **Profile Trowel (5047)**
- **Rundkelle (4114)**
- **Flächenstreicher (4540)**
- **Teleskopstiel (4391)**
- **Rollerbügel (4449)**
- **U-shaped roller handle (5068)**
- **Pro nylon roller (5045)**
- **Nylon Roller Standard (5066)**
- **Heizkörperpinsel (4541)**

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).

Personal protective equipment

This information can be obtained from the current Safety Data Sheets and/or the relevant professional associations.

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

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.