Betofix XWW4

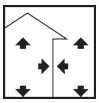
Coating mortar conforming to DIN 19573 in areas with biogenic sulphuric acid corrosion

	Availability	
	Quantity per pallet	36
	Size / Quantity	
	Type of container	Paper bag
	Container code	25
	Art. no.	
	1109	■

Application rate

Approx. 2.0 kg/m²/mm layer thickness, or approx. 2.0 kg/dm³

Range of use



- Repair and coating mortar for wastewater facilities
- In sewage systems exposed to high level of chemical attack, such as settling tanks, sludge thickeners and intakes
- For building elements subjected to chemical loads in agricultural and biogas facilities
- Concrete replacement according to
  - DIN EN 1504-3

Property profile

- Sulphate-resistant
- High mechanical resistance
- Freeze/thaw-resistant
- High resistance to water penetration
- Very low shrinkage
- Early strength

Planning information

Betofix XWW4 - Classification					
acc. to DIN EN 1504-3	R3				
Compressive strength class as per DIN 19573	B1				
Reaction to fire	class A1				
Impacts from the environment					
Chemical attack	XA1	XA2	XA3		
Waste water	XWW1	XWW2	XWW3	XWW4	
Application					
Repair principles/procedures	3.1	3.2	4.4	5.3	6.3

Characteristic data of the product

Minimum layer thickness	10 mm (for BSA attack)
Water requirement	Approx. 10.7%, equivalent to 2.7 l/25 kg
Capillary water uptake	≤ 0.5 kg/(m²h$^{0.5}$)
Compressive strength	1 d = > 10 N/mm² 7 d = > 25 N/mm² 28 d = > 30 N/mm²
Flexural tensile strength (28 days)	≥ 4.0 N/mm²
Dynamic E-modulus	≥ 25000 N/mm²
Maximum grain size	2 mm
Bond strength (28 d)	≥ 1.5 N/mm²

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

Preparation

Substrate requirements

Concrete surface:
Stable, clean, dust-free
Observe the applicable technical regulations for the following parameters:
- Adhesive pull strength of the substrate
- Minimum roughness/roughness depth

Pre-wet the substrate so that it is slightly moist.

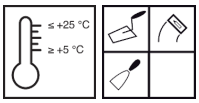
Reinforcement:
Degree of purity SA 2 ½ if applying corrosion protection, otherwise SA 2

Production of the mixture

Mixing
Prepare water, add dry mortar and mix until homogeneous.

Mixing time: approx. 3 minutes
Maturing time: approx. 1 minute.
Final mixing time: approx. 1 minute

Directions



Conditions for use
Temperature of the material, air and substrate: from min. +5 °C to max. +25 °C.
Low temperatures increase, while high temperatures decrease the working and setting time.
Once it has hardened, mortar must not be made workable again by adding either water or more wet mortar.

Bonding layer
Create and apply bonding layer of Betofix XWW4

Working time
(+20 °C): approx. 20 minutes

Layer thickness
Single layer 6 - 15 mm
Two layers < 30 mm, apply wet on wet

Subsequent processing
Protect fresh mortar surfaces from wind, direct sunlight, rain and/or frost for at least 3 days so that they do not dry too quickly.

Tools / Cleaning

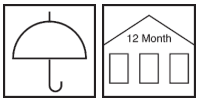
Mixing tool, trowel, smoothing trowel
Clean tools with water while the material is still fresh.

Remmers tools

- **Mischgefäß (4030)**
- **Profile Trowel (5047)**
- **Rundkelle (4114)**
- **Smoothing Trowel (4004)**
- **Glättkelle (4117)**
- **Smoothing Trowel Duo (4118)**

Storage / Shelf life

If stored in an unopened container and in a dry place, the product will keep for approx. 12 months.



Safety data / Regulations

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.

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.

Declaration of performance

› **Declaration of performance**

Declaration of conformity

CE

Remmers GmbH
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GBI-P 86-3
EN 1504-3: 2005
1109

Product for structural and non structural repair for concrete

Compressive strength:	class R4
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 2.0 MPa
Restrained shrinkage/expansion:	≥ 2.0 MPa
Elastic modulus:	≥ 20 GPa
Thermal compatibility:	≥ 2.0 MPa
Capillary absorption:	≤ 0.5 kg/(m²h$^{0.5}$)
Reaction to fire:	class A1