



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				
Fire behaviour 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



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

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:

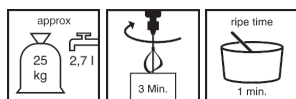
- Adhesive pull strength of the substrate
- Minimum roughness/roughness depth

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

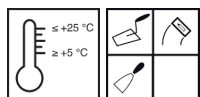
Prepare water, add dry mortar and mix until homogeneous.

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.

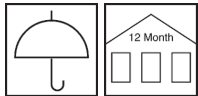
Remmers tools

- **Mischgefäß (4030)**
- **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



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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 R3
Chloride ion content:	≤ 0.05 %
Adhesive bond:	≥ 1.5 MPa
Restrained shrinkage/expansion:	≥ 1.5 MPa
Elastic modulus:	≥ 15 GPa
Thermal compatibility:	≥ 1.5 MPa
Capillary absorption:	≤ 0.5 kg/(m ² h ^{0.5})
Fire behaviour class:	A1
Dangerous substances: NPD	

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

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When a new version of this Technical Data Sheet is published, it shall replace the previous version.