BUILDING COMMON GROUND

MAX FRANK®

Technical Data Sheet

Zemseal® Epoxy resin mortar

Product

Description	**Zemseal® Epoxy resin mortar** is a solvent-free, chemical-resistant, multi-component epoxy resin mortar.
Use	**Zemseal® Epoxy resin mortar** is used for load-transmitting and sealing connections of Zemseal® membranes to adjacent building components.
Characteristics / advantages	**Zemseal® Epoxy resin mortar** cures after mixing the components to a hard-elastic duromer with high compressive, flexural, adhesive tensile and shear strength. **Zemseal® Epoxy resin mortar** is physiologically harmless and non-toxic when cured.

Test Reports

Approvals / Standards	not required

Product Data

Appearance	---
Packaging	Tinplate container with 4.5 kg content of filler, resin and hardener.
Storage	**Zemseal® Epoxy resin mortar** will keep for at least 12 months in unopened containers stored in a cool, dry place away from light.
Classification	GISCODE RE 30
Processing	The surface must be coarse (e.g. roughened), clean, solid, and free from separating substances and standing water. When using Zemseal®, the mortar may only be applied to the fleece side.

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Suitable surfaces are for example:

- Zemseal® fleece side
- Concrete
- Steel
- Plastic pipes

Note:

Plastic surfaces must be pretreated, e.g. by roughening using sandpaper.

Components A + B + C must be mixed homogeneously in the prescribed mixing ratio before use. The mixing time is at least 3 minutes with a suitable mixer. The components must be completely mixed.

Tools: spatula, trowel, notched trowel

Tools and equipment can be cleaned with Intectin® Special Cleaner.

Material Properties

Delivery form	Multi-component container	
Colour (mixture)	grey	
Viscosity (20°C)	Component A 1100 mPas Component B 1700 mPas	
Density (20°C)	Component A 1,10 g/cm³ Component B 1,00 g/cm³ Component C 2 – 3 g/cm³	
Composition	Solvent-free epoxy resin with fillers	
Mixing ratio	Component A B C ratio weight 7 3 35	
Processing time (pot life)	~ 20 minutes at +30°C ~ 40 minutes at +20°C ~ 60 minutes at +10°C	
Working temperature	not under +5°C	
Curing time	~ 12 hours at +20°C Final strength after 7 days	
Compressive strength	50 MPa	
Bending strength	> 45 N/mm²	(DIN EN ISO 178)
Tensile bond strength concrete Tensile bond strength Zemseal®	Concrete breakage ≥ 0,75 N/mm²	(DIN EN 1542)
Peel strength to Zemseal®	≥ 200 N / 50 mm with Zemseal® 12	(DIN EN ISO 8510-2)
Volume shrinkage	< 1,0 %	
E-module (tensile strength)	3,02 GPa	(DIN EN ISO 527)
Consumption	~ 1,75 kg/m² per mm layer thickness	

Environment / Sustainability	The company MAX FRANK GmbH & Co. KG has implemented a certified environmental management system since July 2022. Please dispose of and recycle the packaging in accordance with the applicable legal regulations.

Disclaimer / Notes:

The usability of the products in the specific installation situation must be checked by the user. This data sheet is constantly updated. Technical changes are therefore expressly reserved without prior information of the customer. The currently valid version can be found on our website at: www.maxfrank.com. Our General Terms and Conditions of Sale apply in addition.

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