ROMPOX® 1600 EP pouring mortar

Solvent free, 2 component epoxy/amine resin pouring mortar system as pouring material

1.0 Areas of application

ROMPOX® 1600 EP pouring mortar ist especially suitable for use as pouring material and anchor mortar indoors and outdoors. It is a high quality, non shrinking epoxy resin system with very good pouring properties, which makes it particularly good for pouring under and anchoring machinery and plants. Thanks to the quick hardening and ease of use, it can be used for anchoring and maintenance of construction elements and supporting structures of bridges. ROMPOX® 1600 EP pouring mortar is also used for rail pouring and for pouring under steel constructions and joint profiles. Further areas of application are: Pouring of road sensors, use in high storage facilities, pumps and compressors, precision storage and noise pollution wall posts and metal construction elements.

2.0 Technical data of liquid components

2.1 Technical data

System	**2 component EP/amine resin system**		
Density (AB) at 23° C	**approx. 1,950**	g/cm³	DIN EN ISO 2811-1
VOC content	**<500**	g/l (EU Norm, max. 500 g/l	EU 2004/42/II/A
Waste disposal key comp. A	**08 01 11**		acc. to AVV
Waste disposal key comp. B	**08 01 11**		acc. to AVV
Waste disposal key comp. AB	**07 02 13**	hardened form	acc. to AVV
GISCODE	**RE 1**		Bau BG

2.2 Delivery form

ROMPOX® 1600 EP pouring mortar: Two component containers, 25 kg
Components A and B are supplied in a ready to use mixed ratio.

2.3 Storage

In compliance with the regulations and technical rules applying to hazardous substances.
Storage of unopened containers, in cool, dry, frostfree rooms. Ideal storage temperature is approx. 15°C for unopened containers and storage life is 12 months. Temperatures below +10°C and above +35°C should be avoided. After opening, the containers should be used up as soon as possible. Protect contents against moisture. Before use, the material needs to be brought up to ambient temperature.

3.0 Technical data for application

3.1 Surface requirements before application

The surface must be loadbearing, even, dry and free of oil, grease, separators and dust. Loose particles and other dirt must be removed. In general, the surface should be prepared by shotpeening. In some cases it may be necessary to carry out grinding or milling. The minimum adhesion strengh of the surface must be ≥1,5 N/mm². Residual moisture of the concrete must be a maximum of 4 CM%. Surface temperature must be at least 3 degree Celsius above the dewpoint temperature. The DBV leaflet „Application of reactive resins in concrete construction; part 2: Surface“ should be heeded.
An adhesion bridge is not usually needed, but in case of risk of rising damp on the surface, in order to prevent osmosis ROMPOX® 1506 or ROMPOX® 1504 should be applied with at least 2x 0,300 kg/m².
In case of surface and material temperatures below +15°C, or when going below the dewpoint distance, levelling and surface faults can occur as well as adhesion problems within the coating system!

3.2 Technical data for application

Application time at	10° C	**40**	minutes	ROMEX® - Norm 04
	20° C	**20**	minutes	ROMEX® - Norm 04
	30° C	**10**	minutes	ROMEX® - Norm 04
Pot time	23° C	**23**	minutes	ROMEX® - Norm 04
Min. hardening temperature		**+10**	°C	Floor and air temperature
Application temperature		**15-30**	°C	Floor and air temperature
Dewpoint distance		**≥3**	°C	Floor and air temperature
Air humidity		**≤75**	%	Relative air humidity

Please note: *The times mentioned in item 3.2 are approximations and will vary with differing ambient conditions*

3.3 Application instructions

Component B (hardener, bottle) is poured completely into component A (resin and filler material) and stirred well (at least 5 minutes) using a slow rotating mixer (approx. 300 rpm diameter of whisk approx. 1/3 of the diameter of the container). Take care to mix all the material from the sides and bottom of container as well). In case of using part measurements (mix A component first, homogenously), these need to be weighed exactly using an electronic scale according to the stated mixing ratio. Mix only the quantity that can be used within the pot time. Do not use straight from the delivery container! Avoid mixing air into mixture. After mixing, pour into a clean container and stir again.
ROMPOX® 1600 pouring mortar is applied by pouring. In order to avoid air bubbles, application must be done all in one go without interruption. Existing framework must be treated with suitable separators (wax, oil).

3.4 Application example

as **pouring mortar**
on cementbound surface

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Pouring **Minimum consumption**	**ROMPOX® 1600 EP Pouring mortar**	**1.9 kg/l** **19 kg/cm/m²** **e.g. for a depth of 5mm approx. 9.5kg/ m²**	Continuous pouring

3.5 Cleaning

Each time work is interrupted, clean all tools and equipment with a general solvent (i.e. ethanol, white spirits. Hardened material can only be removed mechanically.

4.0 Technical data of hardened product

4.1 **Technical data of hardened product**

Re-application at	23 °C	**8-48**	min. / max. hrs.	ROMEX® - NORM 07
Can be walked on at	23 °C	**24**	hrs.	ROMEX® - NORM 07
Fully hardened at	23 °C	**>7**	days	ROMEX® - NORM 07
Compressive strength: after 7 days		**>70**	N/mm²	DIN EN 1015-11
Compressive strength: after 1 day		**>35**	N/mm²	DIN EN 1015-11
Bending tensile strength: after 7 days		**>35**	N/mm²	DIN EN 1015-11
Bending tensile strength: after 1 day		**>25**	N/mm²	DIN EN 1015-11
Adhesion on concrete (sanded)		**3**	N/mm²	
Adhesion on steel (sanded)		**15**	N/mm²	
Shore-D-Hardness		**±82**	Shore-D	DIN 53505
Layer thickness		**5-50**	mm	
Grainsize		**0-2**	mm	

4.2 **Properties ROMPOX® 1600 EP pouring mortar**

- Very good pouring properties
- Shrink free hardening
- Friction locked connection
- High compressive strength
- Good adhesion on steel surfaces
- Under normal conditions can be applied without the use of an adhesion bridge
- Free of nonylphenol
- Free of benzylalcohol
- Mechanically highly loadbearing
- Low temperature expansion coefficient, suitable for use indoors and outdoors
- Colour: Grey, when used outdoors it will yellow
- Very good chemical resistance
- Frost and de-icing salt resistant
- Water permeable

Note: *If possible, always use material from the same production batch, especially on visible surfaces, as material from different production batches, may have slightly differing colour nuances. Hardened, liquid plastics are subjected to environmental factors i.e. UV rays and can thus change visually after hardening (i.e. yellowing, loss of gloss, white discolouration). The functioning of the industrial floor is not affected by this and does not constitute a fault. The colours of the products depend on raw materials and production methods and may have slight deviations.*

5.0 Safety instructions

The products contain reactive materials and are partly hazardous to health in a non-hardened state. The hardener components can cause burns due to high alkali content. It can also cause irritation or skin sensitization. Avoid skin contact. If the product does get onto the skin, wash well with soap and water. If the product gets into the eyes, rinse well with water (keep an eye wash bottle on site) and seek medical treatment immediately. The guidelines in the regulations of handling hazardous materials apply as well as information sheets provided by the professional association of the chemical industry (i.e. BG-Bau, BGR 227 „Handling of epoxy resins"). Exact details on the handling of this product can be found in the safety data sheet for ROMPOX® 1600 EP pouring mortar, comp. A and B.

Notes

Our recommendations, which are given to assist buyers & endusers, are based on our experience and correspond to the current levels of knowledge in science and practice, however they are not binding and have no legal force. It is recommended adapting methods and quantities of product to the local needs. If necessary a sample surface should be laid beforehand

6.0 Important instructions: CE identification

DIN EN 13 813 "Screed mortars, screed mass and screeds – properties and requirements" (Jan. 2003) sets out requirements for screed mortars that are used for floor construction in interior rooms. Synthetic resin coatings and sealants are also included in this norm. Products that are in accord with the aforementioned norm are to be given the CE identification mark

CE	
ROMEX® MB GmbH • Weidesheimer Str. 17 • D - 53881 Euskirchen	
14 [1)]	
EN 13813 SR-B1,5-AR0,5-IR4	
Synthetic resin screed/coating for interior use in buildings (application according to our technical specifications)	
Effects when burned:	Efl [2)]
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD [3)]
Abrasion Resistance:	AR0,5 [4)]
Adhesion strength (Bond):	B1,5
Impact Resistance:	IR4
Impact noise insulation:	NPD [3)]
Noise absorption:	NPD [3)]
Thermal insulation:	NPD [3)]
Chemical resistance:	NPD [3)]

The aforementioned information and instructions for application are based on our expereince. Due to the numerous types of surface, application methods and physical conditions when using our materials, the information contained in these technical specifications cannot be used to make any legal claims with regard to the guarantee for the results when working with this product. The user himself is solely responsible for the results and must test the suitability of the materials. We reserve the right to make changes to the technical specifications. Only the newest version of the technical specifications is valid and this can be downloaded at www.romex-mb.de or requested from us in writing.

Legend

1) *the last two numbers of the year in which the CE identification was attached*
2) *in Germany DIN 4102 is still valid; fire class B2 is fulfilled*
3) *NPD = No Performance Determined*
4) *applies to the smooth, non sprinkled coating*

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