

ROMPOX® 1504

Primer for high residual moisture

**Solvent free, low viscosity, 2 component epoxy/amine resin system
for use on surfaces with very high residual moisture**

1.0 Areas of application:

ROMPOX® 1504 is a priming resin used for the capillary sealing of cement bound surfaces with very high residual moisture (residual moisture of even more than 6 CM%) as a primer and scraping filler for subsequent ROMEX® coatings and sealants. ROMPOX® 1504 can also be used as a primer on extremely fresh concrete (approx. from the third day after laying.)

2.0 Technical data for liquid components

2.1 **Technical data:**

System:	2 component EP epoxy/amine resin system		
Density (ABC) at 23°C:	1,07	g/cm ³	DIN EN ISO 2811-1
Viscosity (ABC):	800 ±50	mPas	DIN 53019
VOC content	<500	g/l (EU-Norm, max. 500 g/l)	EU 2004/42/II/A
VOC content	<8,75	g/l (USA-Norm, max. 100 g/l)	ASTM D 2369
Waste key comp. A	08 01 11		acc. to AVV
Waste key comp. B	08 01 11		acc. to AVV
Waste key comp. AB	07 02 13	hardened form	acc. to AVV
GISCODE	RE 30		Bau BG

2.2 **Delivery form:**

ROMPOX® 1504: 2 component containers, 30 kg

Components A and B are supplied in a ready to use mixing ratio. Delivery of larger or smaller containers on request.

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 or similar and then primed. In some cases it may be necessary to carry out grinding or milling. The adhesion strength of the surface needs to be $\geq 1,5 \text{ N/mm}^2$. Residual moisture of the concrete does not need to be taken into consideration, residual moisture $>6 \text{ CM}\%$ is also acceptable. ROMPOX® 1504 should not be used on surfaces that are covered in a film of moisture. Matt damp surface without puddle formation can be treated. For effective protection against osmosis damage, it is necessary that the surface is completely pore sealed = primed to the point of film formation, otherwise moisture damage may occur. Highly porous surfaces need to be primed twice! In all cases, it is necessary, that after priming, all pores on the surface are sealed. In case of surfaces that have been coated with other primers, these need to be removed before application of ROMPOX®

1504, otherwise there is no effective protection against osmosis. Metal surfaces should be treated according to the Swedish norm SA 2 ½ acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101.

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

3.2 **Technical data for application:**

Mixing ratio:	A : B	100:50	weight parts	
Application time at:	10°C:	40	mins.	ROMEX® NORM 04
	20°C:	20	mins.	ROMEX® NORM 04
	30°C:	10	mins.	ROMEX® NORM 04
Pot time at:	23°C:	30	mins.	ROMEX® NORM 04
Min. hardening temperature:		+10	°C (floor and room temperature)	
Application temperature		15-30	°C (floor and air temperature)	
Dewpoint distance:		≥3	°C	
Air humidity:		≤75	% rel. 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) is poured completely into component A (resin) and stirred well using a slow rotating mixer (approx. 300 rpm, diameter of whisk approx. 1/3 of the diameter of the container). In case of using part measurements (mix A component first, homogeneously), 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® 1504 is applied by flooding using a one lip rubber squeegee and then rolling with a fur roller crosswise. Priming must be done by saturation and without pores.

Please note: In case of surface and material temperatures below +15°C, levelling and surface faults can occur within the coating system!

3.4 **Application example as primer**

Work process	Product	Consumption	Application
Surface preparation			See item 3.1
Primer	ROMPOX® 1504 Primer	min. 0,4 kg/m²	Flooding using rubber squeegee and then with rollers
	Attention! Under no circumstances should quartz sand be sprinkled onto the first layer of primer		
If required, second priming	ROMPOX® 1504 Primer	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
<i>in case first primer is not completely pore free and saturated</i>			
Sprinkling if required *	Firedried quartz sand with Ø 0,1-0,5 mm	approx. 0,5 kg/m	Sprinkle evenly

3.5 **Application example
as a scraping filler**
on cement bound surface

Work process	Product	Consumption	Application
Surface preparation			See item 3.1
Primer	ROMPOX® 1504 Primer	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
	Attention! Under no circumstances should quartz sand be sprinkled onto the first layer of primer		
Scraping filler	layer thickness of 1mm each 1 wp ROMPOX® 1504 1 wp ROMEX® FG 10	min. 0,8 kg/m ² min. 0,8 kg/m ²	With 1 lip hard rubber squeegee or smoothing trowel, smooth well.
Sprinkling if required *	Firedried quartz sand with Ø 0,1-0,5 mm	approx. 0,5 kg/m	Sprinkle evenly

3.6 **Application example
as primer on freshly laid concrete (approx. third day after laying)**

Work process	Product	Consumption	Application
Surface preparation			Grinding with diamond grinder
Primer	ROMPOX® 1504 Primer	min. 0,4 kg/m²	Flooding using rubber squeegee and then with rollers
	Attention! Under no circumstances should quartz sand be sprinkled onto the first layer of primer		
If required, second priming <i>in case first primer is not completely pore free and saturated</i>	ROMPOX® 1504 Primer	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
Sprinkling if required *	Firedried quartz sand with Ø 0,1-0,5 mm	approx. 0,5 kg/m ²	Sprinkle evenly

* **Note:** When working indoors, sprinkling can be left out, if it is ensured, that subsequent work will take place within 72 hours at the latest.

Please take note of ROMEX® technical specifications for coatings and sealants.

Depending on ambient temperature, consumption may vary. At temperatures lower than 15°C, high material consumption is to be expected.

3.6 **Cleaning:**

Each time work is interrupted, clean all tools and equipment with a general solvent (i.e. ethanol, white spirits).

4.0 Technical data for application

Technical data for application

Re-application at:	23°C	6-48	min./ max. hrs.	ROMEX® NORM 07
Can be walked on, at:	23°C	12	hrs.	ROMEX® NORM 07
Fully hardened at	23°C	> 7	days	ROMEX® NORM 07
Compressive strength:		80	N/mm ²	DIN EN 1015-11
Bending tensile strength:		30	N/mm ²	DIN EN 1015-11
Shore-D-hardness:		±80	Shore-D	DIN 53505
Abrasion (Taber Abraser) 1000g/CS10	--	mg		DIN EN ISO 438-2

4.2 Properties of coating:


- Low viscosity
- Good penetration
- Solvent free
- Suitable for use a short time after concrete has been laid
- Can be universally used as a primer and scraping filler
- Transparent/light yellow – red-brownish

5. 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® 1504, comp. A and B.

6. 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.

	
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07 ¹⁾	
EN 13813 SR-B1,5-AR1-IR 4	
Synthetic resin screed/coating for interior use in buildings (application according to technical specifications)	
Effects when burned:	Efl ²⁾
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD ³⁾
Abrasion Resistance:	AR 0,5 ⁴⁾
Adhesion strength (Bond):	B 1,5
Impact Resistance:	IR 4
Impact noise insulation:	NPD ³⁾
Noise absorption:	NPD ³⁾
Thermal insulation:	NPD ³⁾
Chemical resistance:	NPD ³⁾

- 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
- 5)

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.

The aforementioned information and instructions for application are based on our experience. 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-ag.de or requested from us in writing.

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