

ROMPOX® 1507 *Food industry coating*

Solvent free, 2 component epoxy resin system with formulated amine hardener

Areas of application:

ROMPOX® 1507 is a ready to use, pigmented coating that has been developed especially for the strict requirements in the food industry (in accordance with EU norms) as a self-levelling floor coating on mineral bitumen and metal surfaces and is used in areas such as the drinks industry, meat and fish industry, abattoirs and all wet areas such as launderettes, industrial kitchens, sanitary areas etc. It is available as a smooth coating as well as all nonslip categories.

1. Technical data for liquid components

1.1 Technical data:

System:	2 component EP epoxy/amine resin system		
Density at 23°C:	1,35	g/cm ³	DIN EN ISO 2811-1
Viscosity:	800 ±50	mPas	DIN 53019
VOC content	<198	g/l (EU-Norm, max. 500 g/l)	EU 2004/42/III/A
VOC content	<11,2	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 1		Bau BG

1.2 Delivery form:

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.

1.3 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.

2. Technical data for application

2.1 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 ≥1,5 N/mm². Residual moisture of the concrete must be ≤6 CM% (i.e CM machine). The concrete surface must be evened out using ROMPOX® 1505 as either a primer or scraping filler, in order to achieve an extremely smooth surface. For cement surfaces with increased residual moisture >6 CM% ROMPOX® 1506 should be used, for higher residual moisture >6 CM%, ROMPOX® 1504. Highly porous surfaces need to be primed twice! In all cases, it is necessary, that after priming, all pores on the surface are sealed. Metal surfaces should be treated according to the Swedish norm SA 2 ½ 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.

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2.2 Technical data for application:

Mixing ratio:	A : B	4 : 1	weight parts
Application time at:	10°C:	60	mins. ROMEX® NORM 04
	20°C:	30	mins. ROMEX® NORM 04
	30°C:	15	mins. ROMEX® NORM 04
Pot time at:	23°C:	35	mins. ROMEX® NORM 04
Min. hardening temperature:		+10	°C (floor and room temperature)
Application temperature		15-30	°C (floor and air temperature)
Dewpoint distance:		at least. 3	°C
Air humidity:		max. 75	% rel. humidity

Please note: The times mentioned in item 2.2 are approximations and will vary with differing ambient conditions.

2.3 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, 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® 1507 is applied using a squeegee or smoothing trowel. For better aereation use a metal pinfeed platen crosswise.

Please note: Recommendation - minimum consumption of ROMPOX® 1507 (resin and hardener mixture) is 1,5 kg/m² = approx. 1 mm layer thickness!

In case of surface and material temperatures below +15°C, levelling and surface faults can occur!

2.4 Application examples:

Work process	ROMEX® Product	Consumption	Application
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2.4.1 As thick coating 3,0 - 4,0 mm, slip safety class R 11

in wet areas of the drinks and food industry

.1	Surface preparation		See item 2.1
.2	Primer	ROMPOX® 1505 Standard primer	min. 0,3 kg/m²
	Sprinkling	Firedried quartz sand with Ø 0,3-0,8 mm	approx. 1,0 kg/m
	Scraping filler (if required)	per 1 mm layer thickness 1 WP ROMPOX® 1505 1 WP Firedried quartz sand with Ø 0,3-0,8 mm	min. 0,8 kg/m min. 0,8 kg/m
	Sprinkling	Firedried quartz sand with Ø 0,3-0,8 mm	approx. 1,0 kg/m
.3	Self-levelling coating	3mm layer thickness 1 WP ROMPOX® 1507 Food industry coating 0,5 WP firedried quartz sand Ø 0,1-0,3 mm	min. 1,50 kg/m² min. 0,75 kg/m²
	Sprinkling	Firedried quartz sand with Ø 0,3-0,8 mm	approx. 3,0 kg/m

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.4	Topcoat sealant	ROMPOX® 1204 Sealant	min. 0,7 kg/m²	Apply using rubber squeegee or smoothing trowel and then with rollers.
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2.42 As thick coating 1,5 - 2,0 mm, smooth surface
in storage areas of drinks and food industry

.1	Surface preparation			See item 2.1
.2	Primer	ROMPOX® 1505 Priming and mortar resin	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
	Sprinkling if required	Firedried quartz sand with Ø 0,3-0,8 mm	approx. 1,0 kg/m	Sprinkle
.3	Self-levelling coating	3mm layer thickness 1 WP ROMPOX® 1507 Food industry coating 0,5 WP firedried quartz sand Ø 0,1-0,3 mm Recommended mixtures at: 10 – 15 °C 16 – 19 °C ≥20 °C	min. 2,00 kg/m² min. 1,00 kg/m² MR 1 : 0,3 MR 1 : 0,5 MR 1 : 0,8	Apply with smoothing trowel or notched squeegee & aereate with pinfeed platen

* **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.

2.5 Cleaning:

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

3. Technical data for application

3.1 Technical data:

Re-application at:	23°C	12	min./ max. hrs.	ROMEX® NORM 07
Can be walked on, at:	23°C	12	hrs.	ROMEX® NORM 07
Fully hardened at	23°C	after 7	days	ROMEX® NORM 07
Compressive strength:		65	N/mm ²	DIN EN 1015-11
Bending tensile strength:		35	N/mm ²	DIN EN 1015-11
Shore-D-hardness:		approx. 65	N/mm ²	DIN 53505
Abrasion (Taber Abraser)	1000g/CS10	<60	mg	DIN EN ISO 438-2

3.2 Properties of coating:

- Solvent free
- Viscous hard floor coating, forklift resistant
- Very high abrasion strength
- Can be made nonslip for slip safety categories R9-R12
- Fillable with firedried quartz sand 0,1-0,3mm acc. to data in 2.42.3
- Good resistance to lyes, organic and diluted acids, saline solutions, mineral oils and aliphatic hydrocarbons (see resistance list ROMPOX® 1507 / ROMPOX® 1204)
- Low temperature expansion coefficient, thus suitable for use indoors and outdoors
- Many standard colours. Special colours on request.

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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 compared to the RAL colours. It cannot be guaranteed that there will be exact matching of RAL colours.

4. 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® 1507, comp. A and B.

5. 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.

ROMEX® AG • Weidesheimer Str. 17 • D - 53881 Euskirchen	
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:	E _{fl} 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

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.

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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-mb.de or requested from us in writing.

Übersetzt von/Translated by:
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