

ROMPOX® 1010 open to steam diffusion coating

**Solvent free, water emulsifiable, pigmented, open to steam diffusion,
3 component epoxy/amine resin system**

1.0 Areas of application

ROMPOX® 1010 is used as an open to steam diffusion self levelling coating for cement bound surfaces indoors and outdoors. Main area of use is the coating of floors with rising damp e.g. in warehouses, workshops and garages. Special application for the coating of magnesite and anhydrite surfaces

2.0 Technical data of liquid components

2.1 Technical data

System	3 component EP/amine resin system, watery ROMPOX® 1010 A-componente made of water emulsifiable amine hardener ROMPOX® 1010 B-component made of epoxy resin, coloured ROMPOX® 1010 C-component made of mineral filler materials		
Density (ABC) at 23° C	1,80	g/cm ³	DIN EN ISO 2811-1
Viscosity	6700	mPas	DIN 53019
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. C	01 04 09		acc. to AVV
Waste disposal key comp. AB	07 02 13	hardened form	acc. to AVV
GISCODE	RE 0		Bau BG

2.2 Delivery form

ROMPOX® 1010: Three component containers (ABC), 40 kg
 ROMPOX® 1010: Container (AB) 15 kg
 ROMPOX® 3216: Filler material (C) 25 kg

Delivery in large or small 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 and then primed. In some cases it may be necessary to carry out grinding or milling. Damp surfaces can be treated, but must have no standing water on them. Please note: Magnesite and Anhydrite surfaces can be sealed with residual moisture of (unheated) 0,5 CM.-% or (heated) 0,3 CM.-%. Highly porous surfaces and anhydrite surfaces must be primed twice with 2 x 0,3 kg/m² ROMPOX® 1009 and magnesite with 2 x 0,3 kg/m² ROMPOX® 1009. In all cases, it is necessary, that afer priming, all pores on the surface are sealed. With surface roughness deeper than 0,5 mm, scraping filler using ROMPOX® 1009 is necessary. 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 : 72	Weight parts	
	AB:C	15 : 25	Weight parts	
Application time at	10° C	60	minutes	ROMEX® - Norm 04
	20° C	40	minutes	ROMEX® - Norm 04
	30° C	30	minutes	ROMEX® - Norm 04
Pot time	23° C	40	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) 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). Then add component C whilst stirring and continue stirring until the coating mass is homogenous and clump free. In case of using part measurements (mix A and B components 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® 1010 is applied with a squeegee or smoothing trowel. Use plastic pinfeed platen for better aeration and levelling.

Please note: Min. consumption of ROMPOX® 1010 is 3,5 kg/m²!

Insufficient ventilation can cause increase in waiting times for subsequent work and hardening of coating as well as differences in degree of shine or formation of white marks. The coated rooms need to be well ventilated to ensure optimum diffusion of water particles from the fresh coating! Open windows and doors to avoid stale air from forming over time! Please take note of the stated maximum value for relative air humidity, in order to avoid hardening problems!

In case of surface and material temperatures below +15°C, or falling below the dewpoint distance levelling and surface faults can occur!

3.4 Application example

as smooth coating

on anhydrite floors and cementbound surfaces

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1009 Sealant + ≤10% water	min. 0,25 kg/m²	Flooding with rubber squeegee and then rollers
Coating	ROMPOX® 1010 Coating	min. 3,50 kg/m²	Use stick squeegee or notched trowel to apply, then roll with plastic pinfeed platen
Topcoat Single layer	ROMPOX® 1009 Sealant	min. 0,30 kg/m²	Fur roller crosswise

3.5 Application example as smooth coating on magnesite floors

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1009 Primer	min. 2x 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Coating	ROMPOX® 1010 Coating	min. 3,50 kg/m²	Use stick squeegee or notched trowel to apply, then roll with plastic pinfeed platen
Topcoat Single layer	ROMPOX® 1009 Sealant	min. 0,30 kg/m²	Fur roller crosswise

3.6 Application example as coating R11 and R13 on anhydrite floors and cementbound surfaces

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1009 Sealant + ≤10% water	min. 0,25 kg/m²	Flooding with rubber squeegee and then rollers
Coating	ROMPOX® 1010 Coating	min. 3,50 kg/m²	Use stick squeegee or notched trowel to apply, then roll with plastic pinfeed platen
Sprinkling	Firedried quartz sand with Ø 0,3 - 0,8 mm for R11 or Ø 0,7 - 1,2 mm for R13	approx. 3-4 kg/m²	Sprinkle liberally, after hardening sweep off and vacuum
Topcoat Two layers	ROMPOX® 1009 Sealant	min. 0,7 kg/m² (when sprinkling with 0,3-0,8 mm) min. 0,8 – 1,0 kg/m² (when sprinkling with 0,7-1,2 mm)	With one lip hard rubber slider and then level off sharply (based on environmental factors as can often be found in carparks, a consumption value for this grainsize would be >0,9 kg/m ²)

* **Note:** Depending on ambient temperature, consumption may vary. At temperatures below 15 °C, there will be higher material consumption.

3.7 Cleaning

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

4.0 Technical data of hardened product

4.1 Technical data of hardened product

Re-application at 23 °C	12-48	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:	55	N/mm ²	DIN EN 1015-11
Bending tensile strength:	35	N/mm ²	DIN EN 1015-11
Water steam diffusion coefficient:	5.100	μH ₂ O	DIN EN ISO 7783-2: 1999
Shore-D-Hardness 23 °C	±80	Shore-D	DIN 53505
Abrasion (Taber Abrasion) 1000g/CS10	<70	mg	DIN EN ISO 438-2

4.2 Properties of coating

- Fully frost and de-icing salt resistant (after hardening)
- Open to steam diffusion
- Mechanically highly load bearing
- Chemically resistant (see resistance list ROMPOX® 1010)
- Thick layer as self-levelling coating
- For surfaces touching the ground
- Can be made nonslip
- Many standard and light colours available. Special colours on request.

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.

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® 1010, comp. A and B and C ROMEX 3216.

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® GmbH • Von-Bassenheim-Str. 2 • D - 53881 Euskirchen	
14 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⁾

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.

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*

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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ROMEX® GmbH
Von-Bassenheim-Str. 2
53881 Euskirchen

Weitere Informationen
Tel. +49 80) 2251 9412-20
Fax: +49 80) 2251 9412-28

info@romex-ag.de
www.romex-ag.de

