

ROMPOX® 1009 open to steam diffusion sealant

Solvent free, pigmented, 2 component epoxy/amine resin system

1.0 Areas of application

ROMPOX® 1009 can be used as a primer, sealant and scraping filler for cement bound surfaces indoors and outdoors as well as for the sealing of magnesite and anhydrite floors, due to its good steam permeability. ROMPOX® 1009 can also be used for the sealing of hard poured asphalt indoors. ROMPOX® 1009 can be applied by airless spray methods thanks to its water dilutability. The main areas of application are the sealing of floors and walls in warehouses, industrial plants, workshops, power stations and stadium stands

2.0 Technical data of liquid components

2.1 Technical data

System	2 component EP/amine resin system		
Density (AB) at 23° C	1,37	g/cm ³	DIN EN ISO 2811-1
Viscosity	650 ± 100	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. AB	07 02 13	hardened form	acc. to AVV
GISCODE	RE 10		Bau BG

2.2 Delivery form

ROMPOX® 1009: Two component containers, 15 kg and 30 kg
Components A and B are supplied in a ready to use mixed ratio. 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 a primer should be applied. If necessary: pre-treat surface by grinding or milling. Damp surfaces can be treated, but must not have any standing water on them. Please note: magnesite and anhydrite surfaces can be sealed when residual moisture content is 0,5 CM.-% (unheated) and 0,3 CM.-% (heated). Highly porous as well as magnesite and anhydrite surfaces need to be primed with ROMPOX® 1009 2 x 0,3 kg/m². In all cases, it is necessary, that after priming, all pores on the surface are sealed. For surface roughness greater than 0,5 mm, scraping filler made with ROMPOX® 1009 should be used. 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			See packaging label	
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	60	minutes	ROMEX® - Norm 04
Min. hardening temperature		+10	°C	Floor and air temperature
Application temperature		15-25	°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). 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® 1009 can be applied by flooding and a one lip rubber squeegee, then rolling with a fur roller. .

Please note: Insufficient ventilation can cause differences in degree of shine. The coated rooms should be well ventilated in order to ensure optimum diffusion of water particles from the fresh coating! Windows and doors should also be opened in order to prevent longer periods of stale air! Doors with a small gap between floor and door need to be taken down or the gap made bigger. Please take note of the stated maximum values for relative air humidity, otherwise hardening faults or colour deviation may occur! 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!

3.4 Application example

as **Sealant** for light to medium loads
on concrete, screed and freshly laid concrete (green concrete, 3 days old)

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer single	ROMPOX® 1009 Sealant + ≤10% water	min. 0,25 kg/m²	Flooding with rubber squeegee and then rollers
Topcoat painting 1-2 times	ROMPOX® 1009 Sealant	approx. 0,30 kg/m² per work process	Fur roller crosswise
	light mechanical loads medium mechanical loads	min. 1x 0,30 kg/m ² min. 2x 0,30 kg/m ²	

3.5 Application example
As **Sealant** for light to medium loads
on anhydrite and magnesite screeds

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer double	ROMPOX® 1009 Sealant + ≤10% water	min. 2 x 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Topcoat painting 1-2 times	ROMPOX® 1009 Sealant	approx. 0,30 kg/m² per work process	Fur roller crosswise
	light mechanical loads medium mechanical loads	min. 1x 0,30 kg/m ² min. 2x 0,30 kg/m ²	

3.6 Application example
as **sealant with scraping filler**
light to medium loads and evening out of smaller areas of unevenness
on concrete, screed and fresh concrete („green concrete“, 3 days old)

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer single	ROMPOX® 1009 Sealant + ≤10% water	min. 0,25 kg/m²	Flooding with rubber squeegee and then rollers
Scraping filler	per 1mm layer thickness 1,0 wp ROMPOX® 1009 0,5 wp firedried quartz sand Ø 0,1-0,3 mm	min. 1,00 kg/m² min. 0,50 kg/m²	With squeegee or smoothing trowel, then level off.
Topcoat painting single	ROMPOX® 1009 Sealant	approx. 0,30 kg/m²	Fur roller crosswise

3.7 Application example
as **sealant with scraping filler**
light to medium loads and evening out of smaller areas of unevenness
on anhydrite and magnesite screeds

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer single	ROMPOX® 1009 Sealant + ≤10% water	min. 2 x 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Scraping filler	per 1mm layer thickness 1,0 wp ROMPOX® 1009 0,5 wp firedried quartz sand Ø 0,1-0,3 mm	min. 1,00 kg/m² min. 0,50 kg/m²	With squeegee or smoothing trowel, then level off.
Topcoat painting single	ROMPOX® 1009 Sealant	approx. 0,30 kg/m²	Fur roller crosswise

3.8 Application example

as **sprinkled sealant** with increased nonslip requirements for light to medium loads on concrete, screed and fresh concrete („green concrete“, 3 days old)

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer single	ROMPOX® 1009	min. 0,25 kg/m²	Flooding with rubber squeegee and then rollers
Sprinkled layer single	ROMPOX® 1009	min. 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Subsequent sprinkling	i.e. quartz sand 0,3-0,8 mm approx. R10-R11	approx. 1,00 kg/m²	Sprinkle
Topcoat painting 1-2 times (depending on chosen grainsize, a second application may be necessary)	ROMPOX® 1009 Sealant + ≤10% water	approx. 0,30 kg/m² per work process	Use moss rubber slider to level off sharply, then use platens crosswise

Depending on type of nonslip required and visual appearance, glass pearl, corund etc. can be used for sprinkling

3.9 Application example

as **sprinkled sealant** with increased nonslip requirements for light to medium loads on anhydrite and magnesite screeds

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer single	ROMPOX® 1009	min. 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Sprinkled layer single	ROMPOX® 1009	min. 0,30 kg/m²	Flooding with rubber squeegee and then rollers
Subsequent sprinkling	i.e. quartz sand 0,3-0,8 mm approx. R10-R11	approx. 1,00 kg/m²	Sprinkle
Topcoat painting 1-2 times (depending on chosen grainsize, a second application may be necessary)	ROMPOX® 1009 Sealant + ≤10% water	approx. 0,30 kg/m² per work process	Use moss rubber slider to level off sharply, then use platens crosswise

Depending on type of nonslip required and visual appearance, glass pearl, corund etc. can be used for sprinkling

3.10 Application example

as **Sealant** for light to medium loads on concrete, screed and freshly laid concrete (green concrete, 3 days old) using the **airless spray method**

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1009 Sealant + ≤10% water	min. 0,25 kg/m²	Spray crosswise

Topcoat painting 1-2 times	ROMPOX® 1009 Sealant + ≤5% water	min. 0,20 kg/m² per work process	Spray crosswise
	light mechanical loads medium mechanical loads	min. 1x 0,20 kg/m ² min. 2x 0,32 kg/m ²	

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

3.11 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:	--	N/mm ²	DIN EN 1015-11
Water steam diffusion coefficient:	23.500	μH ₂ O	DIN EN ISO 7783-2: 1999
Shore-D-Hardness 23 °C	--	Shore-D	DIN 53505
Abrasion (Taber Abrasion) 1000g/CS10	<10	mg	DIN EN ISO 438-2

4.2 Properties of coating

- open to steam diffusion
- for surfaces touching the ground
- good penetration
- fillable with firedried quartz sands
- fulfills fire classification B1 (flame resistant)
- solvent free
- can be universally used as a primer and scraping filler
- can be applied using airless spray method
- many standard colour and special colours available

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® 1009, comp. A and B.

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 • Mühlgrabenstr. 21 • D - 53340 Meckenheim	
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:	Bfl-s1 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 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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