

ROMPOX® 1070

Sealant

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

1.0 Areas of application

ROMPOX® 1070 sealant is a sealant for cementbound surfaces such as concrete, plaster, screed, anhydrite screeds, iron and steel. ROMPOX® 1070 sealant is used because of its good resistance to mineral oils, petrol, super petrol, kerosene and diesel in areas with high chemical loads such as production areas in the chemical and petrochemical industry and the automobile industry. Because of its good chemical resistance, it is also suitable for use in the food and drinks industry as well as for processing water applications, the computer industry, kitchens, warehouses, laboratories, hospitals and in the automotive industry. ROMPOX® 1070 can be applied directly without a primer on cementbound surfaces.

2.0 Technical data of liquid components

2.1 Technical data

System	2 component EP/amine resin system		
Density (AB) at 23° C	1,50	g/cm ³	DIN EN ISO 2811-1
Viscosity	2.200	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 1		Bau BG

2.2 Delivery form

ROMPOX® 1070: Two component containers, 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. In some cases it may be necessary to carry out diamond grinding or milling. The minimum adhesion strength of the surface must be $\geq 1,5 \text{ N/mm}^2$. Residual moisture of the concrete must be $\leq 4 \text{ CM}\%$. Before coating the surface can be evened out using a primer or scraping filler, in order to achieve an extremely smooth surface. For cement surfaces with increased residual moisture $\leq 4 \text{ CM}\%$, ROMPOX® 1505 is used, for higher residual moisture $\leq 6 \text{ CM}\%$ use ROMPOX® 1506 and for higher residual moisture $>6 \text{ CM}\%$ use 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 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 : 16,5	Weight parts	
Application time at	10° C	60	ninutes	ROMEX® - Norm 04
	20° C	30	minutes	ROMEX® - Norm 04
	30° C	15	minutes	ROMEX® - Norm 04
Pot time	23° C	35	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). 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® 1070 can be applied using a roller, squeegee or smoothing trowel. .

Please note: 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** in chemically affected areas on cementbound surface with nonslip properties

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1505 Primer	min. 0,3 kg/m²	Flooding with rubber squeegee and then rollers
Sprinkling	Firedried quartz sand with Ø 0,3 - 0,8 mm	approx. 2,0 kg/m²	Sprinkle liberally, (after hardening, brush off and vacuum)
scraping filler if required	per 1 mm layer thickness 1 wp ROMPOX® 1505 1 wp firedried quartz sand Ø 0,06-0,3 mm	min. 0,8 kg/m ² min. 0,8 kg/m ²	With one lip hard rubber slider or smoothing trowel and then level off sharply
sprinkling if required*	Firedried quartz sand with Ø 0,3 - 0,8 mm	approx. 3,0 kg/m ²	Sprinkle liberally, (after hardening, brush off and vacuum)
Sealant single	ROMPOX® 1070 Sealant <i>Multi layer application possible</i>	Floor area approx. 0,8-0,9 kg/m² Wall area approx. 0,2-0,3 kg/m²	With one lip hard rubber slider and then level off sharply, then rollers

3.5 **Application example**
as **Sealant**
on iron and steel surfaces

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1101 Primer	min. 0,2 kg/m²	Flooding with rubber squeegee and then rollers
Sealant Single	ROMPOX® 1070 Sealant <i>Multi layer application possible</i>	Floor area approx. 0,3-0,4 kg/m² Wall area approx. 0,2-0,3 kg/m²	With one lip hard rubber slider then rollers

3.6 **Application example**
as **concrete sealant**
on cementbound surface

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Sealant double	ROMPOX® 1070 Sealant <i>Multi layer application possible</i>	Floor area approx. 2x 0,3-0,4 kg/m² Wall area approx. 0,2-0,3 kg/m²	With one lip hard rubber slider then rollers

3.7 **Application example**
as **top sealant for food industry coating**
on cementbound surface

Work process	Product	Consumption	Application
Surface preparation	-	-	see point 3.1
Primer	ROMPOX® 1505 Primer	min. 0,3 kg/m²	Flooding with rubber squeegee and then rollers
sprinkling if required*	Firedried quartz sand with Ø 0,3 - 0,8 mm	approx. 1,0 kg/m²	Sprinkle evenly
scraping filler if required	per 1 mm layer thickness 1 wp ROMPOX® 1505 1 wp firedried quartz sand Ø 0,06-0,3 mm	min. 0,8 kg/m² min. 0,8 kg/m²	With one lip hard rubber slider or smoothing trowel and then level off sharply
Sprinkling	Firedried quartz sand with Ø 0,3 - 0,8 mm	approx. 1,0 kg/m²	Sprinkle evenly
Levelling coating	1 wp ROMPOX® 1507 food industry coating 0,5 wp firedried quartz sand Ø 0,1-0,3 mm	min. 1,5 kg/m² min. 0,75 kg/m²	Apply with smoothing trowel or notched trowel and aerate using pinfeed platen
Topcoat sealant	ROMPOX® 1070 Sealant	min. 0,7 kg/m²	Apply with rubber slider or smoothing trowel, then rollers

*** Note:** When working indoors, sprinkling can be left out, if it is ensured, that subsequent work will take place within 48 hours at the latest. Please take note of ROMEX® technical specifications for coatings and sealants.

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

3.8 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	12	hrs.	ROMEX® - NORM 07
Fully hardened at 23 °C	>7	days	ROMEX® - NORM 07
Compressive strength:	60	N/mm ²	DIN EN 1015-11
Bending tensile strength:	25	N/mm ²	DIN EN 1015-11
Shore-D-Hardness 23 °C	±80	Shore-D	DIN 53505
Abrasion (Taber Abrasion) 1000g/CS10	<40	mg	DIN EN ISO 438-2

4.2 Properties of coating

- viscous hard floor coating, resistant to forklifts
- very high abrasion resistance
- can be made nonslip
- good chemical resistance (see resistance list ROMPOX® 1070)
- lightly structured surface

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® 1070, 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 • Von-Bassenheim-Str.2 • 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 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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