

ROMPOX® 1080 Elastic Coating

Solvent free, elastified, glossy, bridges cracks (static), chemically loadbearing, 2 component epoxy/amine resin system with very good self levelling and aeration properties

1.0 Areas of application

ROMPOX® 1080 is an elastified floor coating with particular resistance to impact loads. The system is pigmented, self-levelling, chemically resistant and easy to clean. Decorative surfaces can be made using chip sprinkling. Suitable for newbuilds and repair of cement bound surfaces, hard poured asphalt surfaces indoors as well as steel platforms indoors. Areas of use are floors that have high mechanical and chemical loads such as printing factories, chemical companies, sewage plants, petrol stations or mineral oil industries. It can also be used in the aeronautical and automobile industries, paintshops, clean rooms and stadium stands. ROMPOX® 1080 is also used as an elastic sealing material for sprinkled, nonslip coatings. The crack bridging capability acc. to DIN EN 1062-7:2004 up to 0,3 mm

2.0 Technical data for liquid components

2.1 Technical data

System	2 component EP/amine resin system		
Density at 23°C	1,50	g/cm ³	DIN EN ISO 2811-1
Viscosity	2100 ±100	mPas	DIN 53019
VOC	<500	g/l (EU Norm, max. 500 g/l)	EU 2004/42/II/A
Waste key comp. A	08 01 11		gem. AVV
Waste key comp. B	08 01 11		gem. AVV
Waste key comp. AB	07 02 13	ausgehärteter Zustand	gem. AVV
GISCODE	RE 30		Bau BG

2.2 Delivery form

ROMPOX® 1080: Two 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 even, dry and free of oil, grease and dust. Loose particles and other dirt must be removed. In most cases, the surface should be shotpeened and then primed. In some cases it may be necessary to carry out grinding or milling. The minimum adhesion strength of the surface needs to be > 1,5 N/mm². Residual moisture of the concrete must be ≤4 CM% (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. Cement surfaces with a high residual moisture ≤ 6 CM% must be treated with ROMPOX® 1506, for higher residual moisture > 6 CM% surface should be treated with ROMPOX® 1504. Highly porous surfaces need to be primed twice! 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. Hard poured asphalt indoors is primed using ROMPOX® 1505 Flex, or evened out using ROMPOX® 1080, in this case, in order to ensure optimum adhesion, at least 80% of the additives in the hard poured asphalt surface must be laid bare (by grinding, shotpeening etc.).

3.2 Technical data for application

Mixing ratio: A:B	see	Packaging label	
Application time at:	10°C:	45 mins.	ROMEX® NORM 04
	20°C:	20 mins.	ROMEX® NORM 04
	30°C:	12 mins.	ROMEX® NORM 04
Pot time at:	23°C:	23 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	(floor and room temperature)
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® 1080 can be applied using a roller, squeegee or smoothing trowel.

Please note: The product is manufactured to ensure optimum aeration. In case of very cold temperatures, in order to achieve a more even levelling out and to remove air bubbles, we recommend using a pinfeed platen on the fresh coating as required.

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 examples

Work process	ROMEX Product	Consumption	Application
Surface preparation			See item 3.1
Primer	ROMPOX® 1505 Standard primer	min. 0,3 kg/m²	Flooding using rubber squeegee and then with rollers
for static crack bridging up to 0,3 mm	ROMPOX® 1505 Flex thicker layer thickness required	min. 0,5 kg/m²	
Sprinkling if required *	Firedried quartz sand with Ø 0,1- 0,5 mm	approx. 0,5 kg/m	Sprinkle
(If required) scraping filler	layer thickness of 1mm each 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 1 lip hard rubber squeegee or smoothing trowel, smooth well with sharp edge.
Sprinkling if required *	Firedried quartz sand with Ø 0,1- 0,5 mm	approx. 0,5 kg/m	Sprinkle evenly
Coating	ROMPOX® 1080 Elastic coating	min. 1,5 kg/m²	Apply with smoothing trowel or notched squeegee then aereate with metal pinfeed platen.
For static crack bridging up to 0,3mm	increased layer thickness required (approx. 2,0mm)	min. 2,5 kg/m²	

3.5 Application example

Coating layer thickness system approx 1,2mm on steel surfaces

Work process	ROMEX® Product	Consumption	Application
if required, fill open steel plate connections	ROMPOX® 1505 Flex scraping filler (plus 5-10% setting agent) depending on width of joint	Depending on joint width and depth	The joints of the steel plates must be screwed tight without movement or welded
Primer	ROMPOX® 1101	approx. 0,25 kg/m²	With 1 lip hard rubber squeegee or smoothing trowel, smooth well with sharp edge.
Coating	ROMPOX® 1080 Elastic coating	min. 1,5 kg/m²	Apply with smoothing trowel or notched squeegee then aereate with metal pinfeed platen
For static crack bridging up to 0,3mm	increased layer thickness required (approx. 2,0mm)	min. 2,5 kg/m²	

3.6 Application example

as coating layer thickness system approx. 1,2 mm on hard poured asphalt

Work process	ROMEX® Product	Consumption	Application
Surface preparation	-	-	see item 3.1
Primer	ROMPOX® 1505 Flex	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
(If required) scraping filler	layer thickness of 1mm each 1 wp ROMPOX® 1505 Flex 1 wp firedried quartz sand Ø 0,06-0,3 mm	min. 0,8 kg/m ² min. 0,8 kg/m ²	With 1 lip hard rubber squeegee or smoothing trowel, smooth well with sharp edge.
Coating	ROMPOX® 1080 Elastic coating	min. 1,5 kg/m²	Apply with smoothing trowel or notched squeegee then aereate with metal pinfeed platen
for static crack bridging up to 0,3 mm	increased layer thickness required (approx. 2,0mm)	min. 2,5 kg/m²	

** Note: When working indoors, sprinkling of primer and scraping filler can be left out, if it is ensured, that subsequent work will take place within 48 hours at the latest.*

Depending on ambient temperature, consumption may vary. At temperatures less than 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 for application

4.1 Technical data for application				
Re-application at	23 °C	15-48	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
Elongation at break	23 °C	±20	%	DIN 53504
Crack bridging at	23 °C	0,3	mm	DIN EN 1062-7/2004
Shore-D-hardness	23 °C	±63		DIN 53505
Abrasion (Taber Abraser) 1000g/CS10		<40	mg	DIN EN ISO 438-2

4.2 Properties of coating

- Meets the requirements of the federal water act (WHG) without certification
- Gloss
- Elastified, bridges cracks up to 0,3 mm in cases of static cracks
- Good chemical resistance (see chemical resistance list ROMPOX® 1080)
- Low viscosity
- Solvent free
- Improves abrasion resistance of sprinkled surfaces
- Many standard colours 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® 1080, 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.

	
ROMEX® GmbH • Mühlgrabenstr. 21 • D - 53340 Meckenheim	
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⁾

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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