

ROMPOX® 1005 Coating

Solvent free, pigmented, high gloss, 2 component epoxy/amine resin system with very good self-levelling and aerating properties

1.0 Areas of application:

ROMPOX® 1005 is a ready to use, pigmented, self-levelling, viscous hard floor coating for cement bound and metal surfaces in areas exposed to chemical and mechanical loads. It is especially used in production plants for high quality industrial goods such as in the electronics industry, the pharmaceutical industry, the automotive industry, engineering and atomic power plants.

2.0 Technical data for liquid components

2.1 **Technical data:**

System:	2 component epoxy/amine resin system		
Density at 23°C:	1,55	g/cm ³	DIN EN ISO 2811-1
Viscosity:	2.000 ±200	mPas	DIN 53019
VOC content	<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	hardened form	gem. AVV
GISCODE	RE 30		Bau BG

2.2 **Delivery form:**

Two component containers - 30 kg

Components A and B are supplied in the correct 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 loadbearing, even, dry and free of oil, grease, separators and dust. Loose particles and other dirt must be removed. In all cases, 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 $\geq 1,5 \text{ N/mm}^2$. Before coating the concrete surface must be primed using a primer such as ROMPOX® 1505 (depending on type of surface) and evened out using a scraping filler such as ROMPOX® 1505, in order to achieve an extremely smooth surface. 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 or dense surface made of hard materials or any treatment agents that may have been used – 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	40	mins.	ROMEX® - Norm 04
20° C	25	mins.	ROMEX® - Norm 04
30° C	15	mins.	ROMEX® - Norm 04
Pot time at 23° C	20	mins.	ROMEX® - Norm 04
Min. hardening temperature:	+10	°C	°C (floor and air temperature)
Application temperature	15-30	°C	°C (floor and air temperature)
Dewpoint distance:	≥3	°C	°C
Air humidity:	≤75	%	% rel. humidity

Please note: The times mentioned in item 2.2 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 the diameter of 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® 1005 can be applied using a squeegee or smoothing trowel.

The product has been made for best possible aeration. In order to cover the surface properly, to ensure even levelling and to remove air bubbles we recommend aerating the fresh coating using a metal pinfeed platen.

Please note: It is recommended to have a minimum consumption of ROMPOX® 1005 (resin and hardener mixture) of 1,8 kg/m² = approx. 1,2 mm layer thickness!.

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

3.4 Application examples:

Coating approx. 1,2 mm (minimum consumption)

on cement bound surface

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
Sprinkling if required *	Firedried quartz sand with Ø 0,3-0,8 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 0,1-0,3 mm	min. 0,8 kg/m ² min. 0,8 kg/m ²	With 1 lip hard rubber squeegee or smoothing trowel, smooth well.
Sprinkling if required *	Firedried quartz sand with Ø 0,3-0,8 mm	approx. 0,5 kg/m	Sprinkle
Coating	ROMPOX® 1005 Coating	min. 1,8 kg/m²	Apply with smoothing trowel or notched squeegee then aerate with plastic 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.

Sprinkled primer or in between layers should be ground and vacuumed in order to cap the grain peaks. When sprinkling with grainsize 0,3-0,8 mm a minimum consumption of 2,5 kg/m² o ROMPOX 1005 is required to cover the sand peaks

Please note: Smaller surfaces with metallic foundations can be primed with ROMPOX 1101 and coated with ROMPOX 1005, if the surfaces are free of movement and are not subjected to large or sudden temperature changes.

3.5 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	8-48	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:	60	N/mm ²	DIN EN 1015-11
Bending tensile strength:	35	N/mm ²	DIN EN 1015-11
Shore-D-hardness:	±70	Shore-D	DIN 53505
Abrasion (Taber Abraser)	<70	mg	DIN EN ISO 438-2

4.2 Properties of hardened coating:

- High gloss
- Can be decontaminated
- Easy to clean
- Watertight
- Viscous hard floor coating, resistant to forklifts
- Very high abrasion resistance
- Solvent free
- Can be made nonslip
- Good chemical resistance (see chemical resistance list ROMPOX® 1005)
- Many standard 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® 1005, 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 B1 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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