

ROMPOX® 1070 Thix structured coating

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

1.0 Areas of application

ROMPOX® 1070 Thix is a lightly structured, solvent free, viscous hard topcoat with high abrasion strength. By mixing in aluminiumoxide (Korund), firedried quartz sand, etc. it is possible to achieve a predefined nonslip level along with good clean capability. ROMPOX® 1070 Thix is used as a structured, rolled coating in production and warehouse areas in the automotive industry, in the electrical and pharmaceutical industry, engineering and factory workshops.

2.0 Technical data of liquid components

2.1 Technical data

| | | | |
|-----------------------------|--|-----------------------------|-------------------|
| System | 2 component EP/amine resin system | | |
| Density (AB) at 23° C | 1,49 | g/cm ³ | DIN EN ISO 2811-1 |
| Viscosity | thixotrope | 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 Thix: 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 grinding or milling. The minimum adhesion strength of the surface must be $\geq 1,5 \text{ N/mm}^2$. Before coating the surface must be evened out using a primer or scraping filler, in order to achieve an extremely smooth surface. For cement surfaces with 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 : 20 | Weight parts | |
| Application time at | 10° C | 35 | minutes | ROMEX® - Norm 04 |
| | 20° C | 18 | minutes | ROMEX® - Norm 04 |
| | 30° C | 12 | minutes | ROMEX® - Norm 04 |
| Pot time | 23° C | 20 | 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). (The B component is thixotrope – scrape out the container completely using a scraper) and stirred well using a slow rotating mixer (approx. 300 rpm diameter of whisk approx. 1/3 of the diameter of the container). Additives (i.e. quartz sand, omyacarb, AlOx (korund)), are always added afterwards and then mixed well for at least 2 minutes. 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 Thix can be applied using a notched trowel or squeegee, then rolled crosswise using a fur roller and then using a structured platen, whereby the structured texture is created.

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 a lightly structured coating with nonslip classification approx. R10 (approx. 0,86mm layer thickness) on cementbound, normed surface

| Work process | Product | Consumption | Application |
|---------------------------|---|------------------------------------|--|
| Surface preparation | - | - | see point 3.1 |
| Primer as scraping filler | ROMPOX® 1505 | min. 0,3 kg/m² | Apply using hard rubber squeegee or smoothing trowel, level off sharply |
| | Primer | min. 0,2 kg/m² | |
| | 2 wp firedried quartz sand Ø 0,06-0,3 mm 1 wp omyacarb | min. 0,1 kg/m² | |
| sprinkling if required* | Firedried quartz sand with Ø 0,1 - 0,5 mm | approx. 0,5 kg/m ² | Sprinkle evenly |
| Intermediate layer | 1 wp ROMPOX® 1505 | min. 0,3 kg/m ² | Flooding with rubber squeegee, then with rollers |
| Structured coating | ROMPOX® 1070 Thix | min. 0,70 kg/m² | Apply using notched rubber squeegee (3mm), then use a fur roller crosswise and a (rough) structured roller to finish |
| | Structured coating AlOx (Korund) # 36 (approx. 0,42-0,6 mm) | min. 0,042 kg/m² | |

3.5 Application example as a lightly structured coating including scraping filler with nonslip classification approx. R10 (> 1,50mm layer thickness) 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 0,1 - 0,5 mm | approx. 0,5 kg/m ² | Sprinkle evenly |
| scraping filler | per 1mm 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 | Apply using hard rubber squeegee or smoothing trowel, level off sharply |
| Structured coating | ROMPOX® 1070 Thix Structured coating AlOx (Korund) # 36 (approx. 0,42-0,6 mm) | min. 0,70 kg/m² min. 0,042 kg/m² | Apply using notched rubber squeegee (3mm), then use a fur roller crosswise and a (rough) structured roller to finish |

3.6 Application example as a lightly structured coating including self leveling Intermediate layer with nonslip classification approx. R10 (> 2, 0 mm layer thickness) on cementbound surface

| Arbeitsgang | Produkt | Verbrauch | Applikation |
|-----------------------------|---|---|--|
| 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 0,1 - 0,5 mm | approx. 0,5 kg/m ² | Sprinkle evenly |
| scraping filler if required | per 1mm 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 | Apply using hard rubber squeegee or smoothing trowel, level off sharply |
| Intermediate layer | ROMPOX® 1005 Same Colour as topcoat | min. 1,5 kg/m ² | Apply with smoothing trowel or notched squeegee |
| Structured coating | ROMPOX® 1070 Thix Structured coating AlOx (Korund) # 36 (approx. 0,42-0,6 mm) | min. 0,70 kg/m² min. 0,042 kg/m² | Apply using notched rubber squeegee (3mm), then use a fur roller crosswise and a (rough) structured roller to finish |

*** Note:** When working indoors, sprinkling should 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.

In case of significant colour contrast between the subsurface and topcoat (especially when using bright colours), we recommend adding 10% ROMEX® 700 (same colour as topcoat) to the Intermediate layer. We recommend that a sample coating is laid.

If the surface still shows faulty areas after filling with primer, then these need to be evened out using ROMPOX® 1505 mixed with quartz sand (i.e. 0,063 mm-0,3 mm) and/or setting agent (ROMEX® 3200).

Please note: 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 | 14 | hrs. | ROMEX® - NORM 07 |
| Fully hardened at 23 °C | >7 | days | ROMEX® - NORM 07 |
| Compressive strength: | 70 | N/mm ² | DIN EN 1015-11 |
| Bending tensile strength: | 30 | N/mm ² | DIN EN 1015-11 |
| Shore-D-Hardness 23 °C | ±70 | Shore-D | DIN 53505 |
| Abrasion (Taber Abrasion) 1000g/CS10 | <40 | mg | DIN EN ISO 438-2 |

4.2 Properties of coating

- abrasion resistant floor coating, resistant to forklifts
- viscous hard floor coating
- can be made nonslip
- solvent free
- good chemical resistance (see chemical resistance list ROMPOX® 1070/Thix)
- good cleaning capabilities
- many standard colours available. Special colours on request.

Different types of AlOx can affect both the appearance and the anti-slip properties of the finished coating. To obtain reproducible results, we recommend that you only order the AlOx from ROMEX®.

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 Thix, 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: | 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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