

## ROMPOX® 1204 Floor and wall sealant

**Solvent free, food safe, pigmented 2 component epoxy/amine resin system**

### 1.0 Areas of application

ROMPOX® 1204 sealant is a coloured coating for cement bound surfaces such as concrete, plaster, screed, asbestos cement and iron, steel and aluminium, with excellent chemical resistance.

ROMPOX® 1204 sealant is used as a sealant in areas that are exposed to high chemical loads such as production areas in the chemical and petrochemical industry because of its very good resistance to mineral oils, petrol, super petrol, kerosene and diesel. It is also used as a sealant in the production areas of drinks and food industries because of its high resistance to lactic acid, fruit acids and high percentage alcohol/water mixtures. It is used in particular in dairies and cheese and milk factories.

### 2.0 Technical data of liquid components

#### 2.1 Technical data

| System                      | 2 component EP/amine resin system |                             |                   |
|-----------------------------|-----------------------------------|-----------------------------|-------------------|
| Density (AB) at 23° C       | 1,4                               | g/cm <sup>3</sup>           | DIN EN ISO 2811-1 |
| Viscosity                   | 1800 ±150                         | 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® 1204: 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 concrete surface must 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 even higher residual moisture  $> 6 \text{ CM}\%$  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           |       | <b>100 : 23,5</b> | Weight parts |                           |
| Application time at        | 10° C | <b>50</b>         | minutes      | ROMEX® - Norm 04          |
|                            | 20° C | <b>25</b>         | minutes      | ROMEX® - Norm 04          |
|                            | 30° C | <b>10</b>         | minutes      | ROMEX® - Norm 04          |
| Pot time                   | 23° C | <b>30</b>         | minutes      | ROMEX® - Norm 04          |
| Min. hardening temperature |       | <b>+10</b>        | °C           | Floor and air temperature |
| Application temperature    |       | <b>15-30</b>      | °C           | Floor and air temperature |
| Dewpoint distance          |       | <b>≥3</b>         | °C           | Floor and air temperature |
| Air humidity               |       | <b>≤75</b>        | %            | 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® 1204 can be applied using a squeegee or smoothing trowel and then rolled crosswise with fur rollers.

**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 areas subjected to high chemical loads on cementbound surface

| Work process                | Product  | Consumption   | Application  |
|-----------------------------|--|---|--|
| Surface preparation         | -  | -   | see point 3.1  |
| <b>Primer</b>               | <b>ROMPOX® 1505</b><br>Primer  | <b>min. 0,3 kg/m<sup>2</sup></b>  | Flooding with rubber squeegee and then rollers                                     |
| Sprinkling if required      | Firedried <b>quartz sand</b><br>with Ø 0,3 - 0,8 mm  | <b>approx. 0,5 kg/m<sup>2</sup></b>   | Sprinkle evenly  |
| Scraping filler if required | per 1mm layer thickness<br>1 wp <b>ROMPOX® 1505</b><br>1 wp firedried <b>quartz sand</b><br>with Ø 0,06 - 0,3 mm | min. 0,8 kg/m <sup>2</sup><br>min. 0,8 kg/m <sup>2</sup>  | With one lip hard rubber slider and then level off sharply                         |
| Sprinkling if required      | Firedried <b>quartz sand</b><br>with Ø 0,3 - 0,8 mm  | <b>approx. 0,5 kg/m<sup>2</sup></b>   | Sprinkle evenly  |
| <b>Sealant</b>              | <b>ROMPOX® 1204</b><br>Sealant   | Floor area<br><b>approx. 3 x 0,30 kg/m<sup>2</sup></b><br><b>= 0,900 kg/m<sup>2</sup></b><br>Wall area<br><b>approx. 3 x 0,25 kg/m<sup>2</sup></b><br><b>= 0,750 kg/m<sup>2</sup></b> | Apply with smoothing trowel or squeegee, then rollers or use airless spray method. |

### 3.5 Application example

as **topcoat sealant** in production areas of the food and drinks industry

slip resistance classification R11

| Work process                | Product  | Consumption   | Application  |
|-----------------------------|--|---|--|
| Surface preparation         | -  | -   | see point 3.1  |
| <b>Primer</b>               | <b>ROMPOX® 1505</b><br>Primer  | <b>min. 0,3 kg/m<sup>2</sup></b>  | Flooding with rubber squeegee and then rollers   |
| Sprinkling if required      | Firedried <b>quartz sand</b><br>with Ø 0,3 - 0,8 mm  | <b>approx. 0,5 kg/m<sup>2</sup></b>                                       | Sprinkle evenly  |
| Scraping filler if required | per 1mm layer thickness<br>1 wp <b>ROMPOX® 1505</b><br>1 wp firedried <b>quartz sand</b><br>with Ø 0,06 - 0,3 mm                       | min. 0,8 kg/m <sup>2</sup><br>min. 0,8 kg/m <sup>2</sup>                  | With one lip hard rubber slider and then level off sharply                               |
| Sprinkling if required      | Firedried <b>quartz sand</b><br>with Ø 0,3 - 0,8 mm  | <b>approx. 0,5 kg/m<sup>2</sup></b>                                       | Sprinkle evenly  |
| <b>Coating</b>              | 3mm layer thickness<br><b>1 wp ROMPOX® 1507</b><br>Food industry coating<br><b>0.5 wp</b> firedried quartz<br><b>sand Ø 0,1-0,3 mm</b> | <b>min.1,50 kg/m<sup>2</sup></b><br><br><b>min. 0,75 kg/m<sup>2</sup></b> | Apply with smoothing trowel or notched trowel, then aereate with plastic pinfeed platen. |
| <b>Sprinkling</b>           | Firedried <b>quartz sand with</b><br><b>Ø 0,3-0,8 mm</b>   | <b>approx. 3,0–4,0 kg/m</b>   | To achieve slip resistance classification R 11: Sprinkle liberally, then sweep off       |
| <b>Topcoat sealant</b>      | <b>ROMPOX® 1204</b><br>Sealant   | <b>min. 0,7-0,9 kg/m<sup>2</sup></b>                                      | Squeegee 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.

**Please note:**

For higher resistance and more quartz grain coverage, we recommend using ROMPOX 1204 in higher quantities (approx. 0,8 – 0,9 kg/m<sup>2</sup>).

### 3.6 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              | <b>8-48</b>   | min. / max. hrs.  | ROMEX® - NORM 07 |
| Can be walked on at 23 °C            | <b>12</b>     | hrs.              | ROMEX® - NORM 07 |
| Fully hardened at 23 °C              | <b>&gt;7</b>  | days              | ROMEX® - NORM 07 |
| Compressive strength:                | <b>70</b>     | N/mm <sup>2</sup> | DIN EN 1015-11   |
| Bending tensile strength:            | <b>30</b>     | N/mm <sup>2</sup> | DIN EN 1015-11   |
| Shore-D-Hardness 23 °C               | <b>±80</b>    | Shore-D           | DIN 53505        |
| Abrasion (Taber Abrasion) 1000g/CS10 | <b>&lt;40</b> | mg                | DIN EN ISO 438-2 |

### 4.2 Properties of coating

- viscous hard floor coating, forklift resistant

- very high abrasion resistance
- can be made nonslip from R9 – R12
- chemically highly loadbearing (see resistance list ROMPOX® 1204)
- many standard colours and light 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® 11204, 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.

|   |                      |
|---|----------------------|
| <b>CE</b>   |                      |
| ROMEX® GmbH • Von-Bassenheim-Str. 2 • D - 53881 Euskirchen  |                      |
| 14 <sup>1)</sup>  |                      |
| EN 13813 SR-B1,5-AR1-IR 4   |                      |
| Synthetic resin screed/coating for interior use in buildings<br>(application according to technical specifications) |                      |
| Effects when burned:  | Efl <sup>2)</sup>    |
| Release of corrosive substances (Synthetic Resin Screed):   | SR                   |
| Water permeability:   | NPD <sup>3)</sup>    |
| Abrasion Resistance:  | AR 0,5 <sup>4)</sup> |
| Adhesion strength (Bond):   | B 1,5                |
| Impact Resistance:  | IR 4                 |
| Impact noise insulation:  | NPD <sup>3)</sup>    |
| Noise absorption:   | NPD <sup>3)</sup>    |
| Thermal insulation:   | NPD <sup>3)</sup>    |
| Chemical resistance:  | NPD <sup>3)</sup>    |

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](http://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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