

## RC 660

### 2-COMPONENT HIGH BUILT EPOXY COATING

#### Floor systems



#### ADVANTAGES OF RC 660

- ✓ Excellent adhesion
- ✓ Very good wear resistance and acid resistance
- ✓ High mechanical resistance
- ✓ Extremely maintenance-friendly
- ✓ For both floors and walls

#### Description

RC 660 is a two-component epoxy coating with high mechanical strength and excellent abrasion resistance. The product is suitable for application on mineral substrates such as concrete, mortar, fibre cement and brick, as well as on metal substrates when used in combination with a suitable primer.

RC 660 provides good chemical resistance against oils, greases, petrol, acids, diluted alkalis, salts and saline solutions.

Thanks to its high filling capacity and durable film formation, RC 660 is particularly suitable for industrial and semi-industrial applications such as agricultural buildings, garage workshops, technical rooms and warehouses.

#### Properties

- Very good wear resistance and acid resistance
- High mechanical resistance
- Extremely maintenance-friendly
- Decorative RAL-colors available according to Reynchemie list
- Simple and easy to apply

#### Substrate

Cracks, joints and other parts that show water leaks must first be made completely water-tight and leak-proof.

The surface must be mechanically pre-treated. This can be achieved by removing the dust by bullet- or sandblasting or by sanding the surface. These treatments ensure that an open texture surface is obtained, to remove the cement skin from concrete and old remnants of coatings and adhesives. High pressure water jetting is possible, but then the surface must dry sufficiently (moisture content in the substrate:  $\leq 5\%$  humidity) before applying the coating.

Always apply the products on a clean surface, free from adhesion reducing materials such as dirt, oil, grease, old coatings or surface treatments, etc. The parts of the surfaces to be coated that do not meet the requirements as described above (compressive strength, tensile strength, parts that are not well connected ...) must be treated or removed and repaired according to a correct method and with products that are complementary to the substrate and the synthetic resin system to be installed. Should the flatness of the floor not meet the requirements, then a scraping or leveling layer can be applied.

Prepare metal surfaces by blasting them. The degree of roughness for metal surfaces is SA 21/2. Then immediately degrease the surface with RC THINNER. After RC THINNER has fully evaporated, immediately apply a layer of primer RC 845 to prevent the steel from re-oxidizing.

For optimal adhesion and a durable system build-up on mineral substrates, the use of RC 845 as a primer is strongly recommended. This improves adhesion, reduces air release from the concrete and minimises the risk of pinholes and air bubbles.

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## Application instructions

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**Mixing:** RC 660 is supplied in pre-dosed quantities. Add all of the B-component to the A-component and mix the mixture for 3-5 minutes. Use a mixing machine at low speed (300 rpm) to do this; insufficient mixing can lead to poor hardening.

**Processing:** Spread the mixture evenly over the primed surface with a short-haired nylon roller. RC 660 can be used approximately up to 25 minutes after mixing, depending on the temperature (15 - 25°C). At a lower temperature, a longer curing period should be taken into account. The ambient temperature must in any case be more than 10°C. This coating can be sprinkled with anti-slip material while it is still wet. The floor can then be finished after 24 hours with RC 660.

**Anti-slip:** For a good anti-slip effect, we recommend silver sand M 31 (1-2 kg/m<sup>2</sup>). Consumption of coating during unrolling is ±0,4 - 0,5 kg/m<sup>2</sup>.

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## Consumption

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Average consumption is between 0,3 and 0,6 kg/m<sup>2</sup>/layer. In the case of porous or rough concrete, consumption can be higher. It is strongly recommended to apply the RC 660 in 2 layers after 12 hours.

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## Technical characteristics

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Specific weight	1,6 +/- 0,1 kg/dm <sup>3</sup>
Mechanically loadable	After 48 hours at 20°C
Chemical loadability	Please contact us
Heat resistance	40°C continuous
Adhesion to metal	3 - 5 N/mm <sup>2</sup> in function of the surface treatment
Colors	RAL-colors according to Reynchemie-list
Density of the film	Ca. 1,60
Dust dry	After 5 - 10 hours, depending on the temperature and relative humidity
Minimum waiting time between 2 layers	12 hours at +20°C

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## Reaction times

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- The floor can be walked on after 24 hours of curing.
  - Mechanically resistant after 4 days.
  - Do not clean with water for 7 days.
  - Full chemical resistance after 7 days at 20°C, lower temperatures extend the curing time.
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## Application conditions

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The recommended processing temperature for substrate, environment, material and products is between +10°C and +25°C. Relative humidity: maximum 85%.

The temperature of the substrate and of the not fully cured product must be at least 3°C higher than the dew point. Avoid condensation on the surface from the Moment that the preparations start until the complete curing of the products. Ensure adequate ventilation and a low relative humidity during curing.

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## Safety

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Consult the most recent safety data sheet.

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## Remark

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The epoxy which has not yet dried out must not come into contact with water. This could lead to the formation of white spots. When treating a new concrete surface with RC 660, it should be at least 28 days old.

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## Cleaning of equipment

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Immediately after use with RC THINNER. Cured product can only be removed mechanically.

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## Storage / Shelf life

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- Keep only in the original container in a cool, well-ventilated place.
- Opened containers should be carefully closed and stored upright to prevent leakage.
- Up to 1 year after production in the original packaging.

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## Packaging

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1 set of 6 kg (item no. 80305), contains 1 kg (B-component) and 5 kg (A-component).

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## Photos

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### Legal Notes

The information and recommendations contained in this document have been prepared in good faith based on the current knowledge and experience of Reynchemie, concerning products that are correctly stored, handled and applied under normal conditions and in accordance with our guidelines. Since practical conditions, materials and substrates may vary from one application to another, Reynchemie cannot guarantee the merchantability or suitability of the product for a particular purpose. The user remains responsible for carrying out preliminary tests to verify the compatibility of the product with the intended application. All stated values and properties are average results determined at 20 °C. Reasonable deviations are acceptable. Products used in combination with this product within the same application system (such as preparation or finishing products) must always be applied according to the instructions provided in their respective technical data sheets. Reynchemie reserves the right to modify the composition or properties of its products without prior notice. Except where mandatory legal provisions apply, Reynchemie accepts no liability for damage resulting from improper application of its products or from failure to comply with the provided instructions. Third-party property rights must always be respected. All orders are accepted under the applicable sales and delivery conditions. Users must always consult the latest version of the local Technical Data Sheet (TDS) and Safety Data Sheet (SDS) for the respective product; copies will be provided upon request if not available on our website [www.reynchemie.com](http://www.reynchemie.com). This document supersedes all previous versions.