

Surface Preparation and Coating Application on Concrete Substrates

Technical Support Procedure TP-9301-18



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The following guidelines have been prepared for the application of Epoxy Floor Coatings (RTB-999-R and RTB-999-S) on concrete substrates. These guidelines are meant to ensure correct surface preparation and coating application so that a prolonged service life can be provided by the Ronass product you have chosen.

Surface Leveling and Cleaning

1. During concrete application, it is natural to be left with a surface that is not completely flat. Level the surface as much as possible using power tools such as a concrete sanding machine, milling machine or a cup brush.
2. Remove any remaining cement mortar or other contaminants on the surface using appropriate tools.
3. Repair any damaged areas and fill large holes with cement and concrete glue.
4. Use compressed air to remove and completely rid the surface of any dust, dirt or contaminants that may remain. If necessary, use a strong industrial vacuum cleaner to vacuum the dust in any cracks and voids. It is very important to have a completely clean substrate.
5. Etch, decontaminate and control the surface's alkaline state using Acetic Acid (1-2%).
6. Wash the concrete using fresh water in 2 or 3 stages.

Sealing and Coating Application

1. Once you have ensured that the concrete has been adequately prepared and dried, apply a layer of RTB-750 (Two-Component Epoxy Sealer), diluted with 1.5 – 2 times its weight with T-445 (Epoxy Thinner). This step is completed to ensure that all voids, gaps and cracks on the concrete surface are sealed and protected.
2. After the sealer has completely dried, use RTB-788 (Two-Component Epoxy Putty) to fill any voids, holes, gaps and cracks. The tools used to apply putties include palette knives and scrapers in various sizes. Please note that the maximum film thickness that putties can be applied in each stage is 3 mm.
3. Once the putty has completely dried, sand away any inconsistencies using sandpaper to ensure that you are left with a smooth and uniform surface.
4. Review the Technical Specifications of the coating you wish to apply once again, paying close attention to the Application Details section. Apply the coating in accordance with the technical specifications of the products.
 - ❖ It is mandatory to adhere to the recoating interval of the product if you are applying more than one layer of coating. This interval is typically 16 – 24 hours in standard conditions.

For more information, please refer to the technical specifications of the products you intend to use.