



ARDEX R 114 PP

Water Based Polyurethane Sealer

Wear resistance – durable, low maintenance cost

UV resistant – no discoloration

Water based polyurethane – Environmental friendly, low VOC, low odor

Available in different colors

Gloss or matt finish



本企业通过ISO9001:2000质量管理体系



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ARDEX R 114 PP

Water Based Polyurethane Sealer

Description:

ARDEX R 114 PP is a two-component water based polyurethane sealer which is wear-resistant and UV resistant. It is the ideal protective sealer for ARDEX R 120 PP, ARDEX R 121 PP and ARDEX Epoxy Coating to improve the wear and UV resistance properties. When used on ARDEX cement-based self-leveling surface, a suitable ARDEX primer should be applied.

Substrate Preparation

ARDEX R 114 PP must be applied on the cured polyurethane or epoxy coating surface. The surface must be free from dust, oil and grease, wax, paint residues, loose particles and other contaminants which will affect debonding. Use dust collector to clean the surface.

Mixing

Mix part A of ARDEX R 114 PP for about 30 seconds until uniform, then add part B, using a medium speed heavy-duty electric stirrer to mix thoroughly for 2 minutes until a uniform mix is obtained. Move the mixture to a large clean bucket and mix again for another minute until uniform.

Application

Deliver the mixed ARDEX R 114 PP to the construction site and pour directly on the treated substrate. Use a scraper to pave the material evenly, then immediately use a short-haired roller to cross roll the area to make sure the entire surface is covered evenly with no extra fluid. The site should have good ventilation. Make sure to remove soft flocks before using a new roller, for any loose flocks will affect the surface finish.

Construction restrictions

Construction should not be processed when temperature is below 10 °C or the relative humidity is higher than 75%. When the temperature exceeds 30 °C, the operating time of ARDEX R 114 PP is very short, a reasonable construction process need to be arranged.

If the mixed material exceeds its operating time, the viscosity and properties of the material may change, unused material should be discarded.

Note: All ARDEX products are produced by the quality assurance procedures strictly. In the area where color balance is strict required, use the same batch of material in the same area as possible.

Cleaning of tools

Immediately wash the tools and equipment with fresh clean water after application. Cured material must be removed by mechanical methods.

Performance

The following data is measured under 23 °C laboratory condition. Actual performance obtained from the on-site construction may vary.

Physical Properties

ARDEX R 114 PP	@ 23 °C
Operating time	60 minutes
Open for walk	24 hours
Fully curing	7 days
Wear resistance	15mg
(CS17 wheel load 750g/500r)	
Bond strength	> 2MPa

Cleaning & Maintenance

To maintain the performance of ARDEX R 114 PP, good maintenance and cleaning are essential. In the area with contaminants, especially highly concentrated substances, it should be cleaned immediately, for it could cause premature damage to the coating. For more information please refer to the introduction chapter about surface protection, preparation, cleaning and maintenance in the ARDEX industrial floor brochure.

Usage

Packaging	Consumption
6kg	0.1kg / m ²
(about 45 microns dry film thickness)	

Note: The above data are theoretical data, the actual amount may vary due to substrate situation. Before application, it is recommended to calculate the expected amount to be used to ensure a uniform coating and proper material consumption.

Storage and Shelf Life

ARDEX R 114 PP can be kept for 12 months from date of manufacture if stored in original unopened packaging in a 5-30 °C dry environment without exposure to cold weather, direct sunlight or heat.

Packaging

Pre-weighed 6kg packaging. Part A is 5kg resin; Part B is 1kg curing agent.

Precautions

Polyurethane resin and curing agent are corrosive and may cause skin irritation when directly contact with eye and skin. Skin contact or swallowing is harmful to health. During the construction and mixing process precautions must be taken: Ensure adequate ventilation, avoid contact with eyes, nose, mouth or unprotected skin. Avoid direct contact without wearing protective gloves, use skin care product as protection if necessary. In case of contact with eyes, rinse under running water immediately and seek medical advice. In case of contact with skin, rinse with soap and water (do not use solvent to clean). Avoid prolonged contact with skin, especially users who have allergic reaction to polyurethane materials. Wear protective gloves, goggles and masks is very necessary. Pay attention to personal hygiene, wash hands when installation is completed or interrupted. Avoid contaminating the inside of gloves when taking off. In case of accident, seek medical advice immediately. For further information please refer to the Material Safety Data Sheet (MSDS).

Waste disposal / leak

Any leakage from either part should use sand or other inert materials to absorb and transfer to a safe disposal container. Disposal of waste materials and packaging should comply with local waste disposal regulations. For more information please refer to the health and safety manual.

The information supplied in our literature or given by our employees is based upon extensive experience and, together with that supplied by our agents or distributors, is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

Regional specific recommendations, standards, codes of practice, building regulations or industry guidelines may affect specific installation recommendations.