



R 50 CP

Two-component modified urethane coating

DESCRIPTION

R 50 CP is a two-component modified urethane coating for use as an independent coating or as a part of a multi-coat system with ARDEX ENDURA range of resin floorings. It has good crack bridging properties and provides excellent resistance to abrasion and chemical attack.

USES

- Car park decks & ramps
- Engineering Works
- Service centers, garages
- Warehouses
- Loading Bays
- Walkways/ stairwells

FEATURES

- Abrasion resistant coating
- Chemical resistant
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Available in a range of colours

PHYSICAL PROPERTIES

R 50 CP @ 27 ± 1°C

Working time Approx 25 minutes

Mixed density Approx 1.41 g/cc

CHEMICAL RESISTANCE

R 50 CP is resistant to wide range chemicals like Petrol, Engine Oil, Brake fluid, Mineral spirit, Diesel, Mild acids, Detergents etc.

COVERAGE ESTIMATES

Pack Size	Coverage
16kg	0.4 kg/m ² as base coat
Part A 12.80 kg	0.4 kg/m ² as intermediate coat
Part B 3.20 kg	(or 0.5 kg/m ² as top coat)

APPLICATION INSTRUCTIONS

Substrate Preparation

Note: The concrete substrate should have a surface tensile strength of at least 1.5 N/mm² and should be minimum 28 days old.

The concrete substrate must be hard, sound, free of dust and other barrier materials such as mortar, curing agents, laitance, oil, grease, etc. that will inhibit adhesion to the substrate. Overwatered or otherwise weak concrete surfaces must also be suitably prepared down to sound, solid concrete by mechanical methods. Dust and other debris should be removed using vacuum equipment.

The ideal substrate for application is a flat, lightly textured, clean concrete surface. Surface irregularities must be ground down or filled out with ARDEX ENDURA range of repair materials. Concrete surfaces should be mechanically prepared, either by grinding, contained shot blasting or similar, and be vacuum cleaned.

Note: The surface moisture content should be less than 5% before commencement of the work. The coating should not be applied to floors that are known to have rising moisture. The product should not be applied in temperatures less than 10 C or where the ambient relative humidity is greater than 85%.

Mixing

Do not commence mixing until all surface preparation and cleaning is complete. The individual contents of the R 50 CP should be thoroughly stirred before being mixed together. The entire contents of Part B should be poured into Part A and the two materials mixed thoroughly for at least 3 minutes using a heavy duty slow speed drill with spiral paddle. Some of the mixed components should be reintroduced back into the hardener container in order to activate any residue and then poured back into the larger mixing vessel and re-mixed for 30 seconds. Mixing in this way will ensure product consistency and that any resin that remains in the containers after application will cure to provide for easier waste disposal.

Application

Apply a coat of R 50 CP on the prepared surface using a brush or roller. If anti-slip properties are required, broadcast R 130 C whilst the coat is still wet. The excess aggregates should be removed after 12 hours by brushing or vacuuming. Apply a second coat of R 50 CP on the dried coat and further cure for 12 hours before allowing foot traffic and 5 days before vehicular traffic.

Subsequent top coats can be then installed depending on the requirement.

CLEANING

R 50 CP can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

MAINTENANCE

Good housekeeping and regular cleaning is essential in order to maintain the performance of R 50 CP. It is particularly important in areas that are subject to regular spillage of chemicals. Spillages should not be allowed to dry, which results in higher concentrations of the chemicals, causing early failure. Regular cleaning of the surface with a rotary scrubbing machine in conjunction with a water miscible cleaning agent or hot water washing at temperatures up to 50°C is recommended.

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STORAGE AND SHELF LIFE

R 50 CP has a shelf life of 6 months if kept in the original unopened containers between 5°C and 30°C. The product should be protected from frost, away from direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the product components should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations. For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and 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.



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