

R 15 CP

Low Viscosity Repair System and Renovation Coating for Application to Polyurethane Floors

DESCRIPTION

R 15 CP is a solvent free, low viscosity repair material which may also be used as a coating for application to polyurethane floors and also as renovation coating over polyurethane floors.

R 15 CP can be extensively used for applications where a thin coating is required to reduce texture or improve appearance and cleaning.

R 15 CP is also suitable for application as a line marking paint on previously applied polyurethane floors, such as ARDEX ENDURA R 70 CP or R 90 CP.

STANDARD COLOURS

Available to any standard RAL Card upon request

Features

- Hard wearing
- Resistant to a wide range of chemicals and liquids
- Suitable for use in food and drinks production environments
- Seamless - easily cleaned to maintain high standards of hygiene

SURFACE PREPARATION

All substrates must be clean and free from dust, oil, wax, greases and loose particles. All traces of contaminants, such as oils, fats, greases, paint residues, chemicals, algae and other barriers to adhesion should be removed.

Good surface preparation is vital to ensure the successful application and performance of R 15 CP.

As R 15 CP is used on previously applied polyurethane floors appropriate surface preparation techniques will depend on the condition of the floor. If the floor is less than 48 hours old the R 15 CP can be applied directly after any dust and contamination is removed. Older floors will require surface grinding or abrasion with a coarse nylon pad in combination with a strong alkali detergent.

MIXING

Before commencing, stir Part A and Part B individually. In a suitable small mixing vessel, pour Part A and start mixing with a slow speed drilling machine fixed with a small helical mixing paddle, add Part D (pigment) and Part B and continue mixing for 30 Seconds. Finally add Part C and mix together for 2 minutes to obtain a homogeneous mix.

APPLICATION

The mixed material should be applied without delay to the prepared substrate using a brush, roller or rubber squeegee, depending on thickness and finish required. Roll in a scatter of Fine Aggregate to give a slip resistant texture if required.

If used to reduce the texture of an existing floor surface, care should be taken to ensure the application is uniform and leaves the appropriate finish intended. For repairs pour into cracks, topping up as necessary, or apply with a spatula for cracks up to 5 mm, isolated areas up to 10 mm wide.

For larger cracks / repairs mix in up to half volume of Fine Aggregate. Once cured overcoat with an application of neat R 15 CP.

LIMITATIONS

Only apply R 15 CP at temperatures above 5°C and where the atmospheric relative humidity (RH) is 90% or below. Do not apply when atmospheric condensation may occur before the R 15 CP is fully cured. The working life is approx. 10 minutes. Multiple units may be mixed but do not mix more material than can be applied within the 10 minutes working time. Attempting to use the R 15 CP more than 10 minutes after mixing will result in a patchy, variable finish.

CLEANING

R 15 CP can be removed from tools and equipment by using ARDEX ENDURA RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

PROPERTIES

The values shown are typical of results obtained in the laboratory at 27 ± 1°C. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

R 15 CP	@ 27 ± 1°C
Pot life	10 mins
Mixed density	1.45 g/cc
Light traffic	24 hrs
Full traffic	48 hrs
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Water absorption	< 1%
Thermal coefficient of linear expansion	5 x 10 ⁻⁶

COVERAGE ESTIMATES

Pack size	Coverage
3.254 kg	10 - 20 m ² @ 100 microns per coat dependent on the texture, applied thickness and substrate condition.
Part A 900 g	
Part B 1 kg	
Part C 1.212 kg	
Part D 142g	

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NOTE: These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

R 15 CP has a shelf life of 6 months if kept in a dry, store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

CHEMICAL RESISTANCE

R 15 CP is resistant to a wide range of liquids and chemicals, for specific information please refer to the following ARDEX ENDURA "Chemical Resistance" chart.

CHEMICAL RESISTANCE CHART - SUMMARY OF RESULTS

Reagent	Concentration in %	R 15 CP
Alcohol		R
Fat, oils & sugars		R
Gasoline, diesel & kerosine		R
Hydrochloric acid (< 35 %)	25	R
Lactic acid (milk)		R
Mineral oils		R
Muriatic acid	25	R
Nitric acid (< 30%)	30	L
Phosphoric acid (< 50%)	10	R
Sodium hydroxide (< 50%)		R
Sulfuric acid (< 50%)	25	R
Water		R
Xylene	100	L

Resistant	R	28 Days +
Limited Resistance	L	up to 7 Days

Note: These results are based on immersion testing and ARDEX ENDURA products may appear less resistant when compared with other manufacturer's surface swab test results.

COLOURS

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ARDEX ENDURA polyurethane floor systems are formulated to maximise the mechanical and chemical resistance properties, as a result of this, these types of systems are discoloured by ultraviolet light leading to a "yellowing effect". This yellowing effect is dependent upon the amount of UV exposure, both in terms of intensity and time, and is more noticeable with lighter colours.

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 (do not use solvents). 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 component products 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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