



R 10 CP

Polyurethane Coving and Wall Render

HIGH PERFORMANCE, POLYURETHANE RESIN, WALL AND COVING SYSTEM, SUPPLIED AS FOUR PARTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, PIGMENTED LAYER FROM A FEATHER EDGE UP TO 12mm THICK

Features

Hard wearing - extremely durable and abrasion resistant with low maintenance costs

Resistant to a wide range of chemicals and liquids

Seamless - easily cleaned to maintain high standards of hygiene

Resistant to thermal shock - at 9 mm thick can withstand steam cleaning regimes

STANDARD COLOURS

Available to any standard RAL Card upon request

Indian Green Building Council
M E M B E R

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DESCRIPTION

Specialist applied, polyurethane resin, wall and coving finish, combining outstanding wearing properties with high chemical resistance and decorative properties. Ideally suited for aggressive areas where a seamless, joint free finish is required and maximum cleanliness is essential. Food processing and storage, abattoir's, drinks production, dairies and general heavy duty plant and traffic areas are just some of the environments that can benefit from this system.

SURFACE PREPARATION

The substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc., that will inhibit adhesion to the substrate. All vertical surfaces must be of a rigid construction to resist deflection during the application process.

Use suitable Degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to mechanical preparation. Contaminated substrates should be mechanically prepared, either by grinding or contained shot blasting equipment or similar, and be vacuumed clean prior to applying R 10 CP in conjunction with ARDEX ENDURA R 8 CP Polyurethane Tack Coat.

NOTE: Any joints or cracks in the substrate where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface.

PRIMING

All substrates must first be primed with ARDEX ENDURA R 8 CP Polyurethane Tack Coat. One or more coats of ARDEX ENDURA R 8 CP Polyurethane Tack Coat may be required depending upon the condition and porosity of the substrate.

MIXING

Shake well the individual components before pouring to the mixing vessel. The contents of Part A and Part B of R 10 CP must first be mixed together for 1 minute, using forced action, in a suitably sized mixing vessel. The contents of part C and Part D, should then be introduced into the mixed resin and mixed together for a further 2 minutes to create one homogeneous mix.

APPLICATION

Once the tack coat has achieved the required tack, the mixed material should be applied to the prepared and primed substrate without delay using a trowel to achieve the desired thickness and coving profile.

NOTE: Do not overwork the surface and do not mix more than can be used within the working time.

The work area should be protected during the installation process and during the initial curing

time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, and cured surface.

All movement joints in the substrate must be carried through the wall and coving render and properly sealed. Construction joints and cracks not subject to movement may be overlaid but should the substrate move in anyway, these defects will reflect through the wall and coving render. Isolation joints will need to be allowed for in areas where high thermal movement is anticipated, e.g. around ovens and freezers.

LIMITATIONS

R 10 CP should only be applied at temperatures above 5°C. Substrates should be dry and not affected by rising damp. Concrete or other cementitious substrates should have a surface tensile strength of at least 1.5 N/mm².

R 10 CP may be applied to substrates of a lower strength, but the long-term performance may be impaired. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded at this time.

CLEANING

R 10 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 10 CP	@ 27 ± 1°C
Pot life	15 mins
Light traffic	24 hrs
Full traffic	48 hrs
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	45 N/mm ²
Flexural strength	11 N/mm ²
Tensile strength	5 N/mm ²

COVERAGE ESTIMATES

Pack size	Coverage
14.30kg	Approximately 1.7 m ² when applied at a thickness of 5mm
Part A 900g	
Part B 1kg	
Part C 12kg	
Part D 400g	
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 10 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 10 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 10 CP
Acetic acid	10	R
Acetic acid	50	S
Acetone	100	N
Ammonia	10	R
Ammonia	35	R
Beer	100	R
Citric acid	50	R
Formic acid	50	L
Hydrochloric acid	25	L
Hydrogen Peroxide	20vol	R
Kerosine	100	R
Lactic acid	25	R
Methylated Spirit	100	R
Milk	100	R
Nitric acid	30	L
Nitric acid	70	N
Oleic acid	100	R
Orange Juice	100	R
Petrol	100	R
Phosphoric acid	10	R
Red Wine	100	R
Salt	Saturated	R
Sodium hydroxide	50	R
Sodium hyperchlorite	15	R
Sugar	Saturated	R
Sulphuric acid	10	R
Sulphuric acid	25	R
Sulphuric acid	75	S
Xylene	100	L

Resistant		28 Days +
Limited Resistance		up to 7 Days
Not Resistant		
Short Term Resistance		up to 1 Day

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.

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

R 10 CP is available to any standard RAL Card upon request.

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 material 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.