



# R 11 CP

## Two Component Water Based Polyurethane Floor and Wall Coating

HIGH PERFORMANCE, POLYURETHANE RESIN COATING, SUPPLIED AS TWO PARTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, LAYER ON CONCRETE, EPOXY AND POLYURETHANE TOPPING.

### Features

For floors and walls

Very high chemical resistance

Hard wearing

Hygiene

Easy cleaning

Anti-fungal, anti-bacterial

### STANDARD COLOURS

Available to any standard RAL Card upon request

Indian Green Building Council

**M E M B E R**

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HIGH PERFORMANCE, POLYURETHANE RESIN COATING, SUPPLIED AS TWO PARTS IN PRE-MEASURED PACKS FOR EASE OF ON SITE MIXING AND USE. THE CURED SYSTEM FORMS A TOUGH, EASILY CLEANED, LAYER ON CONCRETE, EPOXY AND POLYURETHANE TOPPINGS.

### DESCRIPTION

R 11 CP is a two component water based polyurethane floor and wall coating. R 11 CP can be extensively used for applications where a thin coating is required to reduce texture or improve appearance and cleaning. R 11 CP is also suitable for application on previously applied epoxy, polyurethane floor and walls.

### SURFACE PREPARATION

All substrates must be clean and free from dust 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 11 CP.

As R 11 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 11 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

Pour the contents of Part A and Part B into a large mixing bucket and mix using a small helical mixing paddle and electric drill for 30 seconds. Add approximately 2 Litres of water mix all the three parts until uniform homogenous 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.

### LIMITATIONS

Only apply R 11 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 11 CP is fully cured.

The working time is approx. 30 - 45 minutes. Multiple units may be mixed but do not mix more material than can be applied within the 30 - 45 minutes working time.

Attempting to use the R 11 CP more than 30 - 45 minutes after mixing will result in a patchy, variable finish.

### CLEANING

R 11 CP can be removed from tools and equipment by washing in clean water 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 11 CP	@ 27 ± 1°C
Working time	30 - 45 mins
Mixed Density	1.15 - 1.25 g/cc
Light traffic	24 hrs
Full traffic	48 hrs
Full chemical cure	7 days
<b>Bond strength at 24 hours</b>	
Concrete	> 2 N/mm <sup>2</sup>
Epoxy	> 2 N/mm <sup>2</sup>
Polyurethane	> 2 N/mm <sup>2</sup>

Konig pendulum hardness	~ 92s
DIN EN ISO 1522 after 7 days curing at 23°C and 50% RH 120um wet film thickness on glass	
Pencil hardness (gouge) ISO 15184:1998 after 7 days curing at 23°C and 50% RH 120 micron wet film thickness on glass	>= 2 H
Gloss (60°/85°)% ISO 2813:1978 after 7 days curing at 23°C and 50% RH 120 micron wet film thickness on glass	4.5 / 8.9
Impact (kg.cm) ASTM2794 after 7 days curing at 23°C and 50% RH 23±3 micron dry film thickness on tin-steel	>= 50
Bend (mm) ISO 1519 after 7 days curing at 23°C and 50% RH 23±3 micron dry film thickness on tin-steel	<= 1
Abrasion ASTM D 4060, CS 10 abrading wheel / 10 N load, 1000 cycles Taber abrader after 7 days curing at 23°C and 50% RH	~ 50 mg
Alcohol (100%) double rub, 350g load (cycles) 120um wet film thickness on glass, 7 days curing at 23°C and 50% RH	>200

MEK double rub, 350g load (cycles) 120um wet film thickness on glass, 7 days curing at 23°C and 50% RH >200

**VOC Content** 128.8 g/L

### COVERAGE ESTIMATES

Pack size	Coverage
<b>6kg</b>	Approx. 40 m <sup>2</sup>
Part A 5kg	(After adding 2 litres of water)
Part B 1kg	(70 - 80 microns)

**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 11 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 11 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	R 11 CP
Alcohol	95%	L
Deionized water		R
Sodium hydroxide	20%	L
Sulfuric acid	20%	R
Sodium Chloride	5%	R

Resistant	R	28 days +
Limited Resistance	L	7 days +

**NOTE:** These results are based on immersion testing and not surface swab test method.

### COLOURS

R 11 CP is available to any standard RAL Card upon request.

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## **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 Product 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.