

R 10 CP

Polyurethane coving and wall render

DESCRIPTION

R 10 CP is a four component, high performance, polyurethane mortar designed for use as coving and wall render. It has outstanding wearing properties with high chemical resistance, temperature resistance and available in a range of colours. Ideally suited for aggressive areas in wet and dry process environments where a seamless, joint free finish is required and maximum cleanliness is essential.

The cured system forms a tough, easily cleaned, pigmented layer from a feather edge up to 12mm thick.

USES

- Laboratories & clean rooms
- Food & beverage production
- Abattoirs
- Dairies
- Cold storages
- Pharmaceutical manufacturing
- Warehouses
- Effluent storage pits
- Lining of drains

FEATURES

- Tough & Hard wearing: durable with low maintenance cost
- Good abrasion resistance
- Resistant to a wide range of chemicals and liquids
- Seamless: easily cleanable to maintain high standards of hygiene
- Hygienic and non-tainting
- Resistant to thermal shock: at 9 mm thick can withstand steam cleaning regimes
- Achieves full cure in only 48 hours
- Supplied in pre-measured packs for ease of mixing and consistency at site
- Available in any standard RAL colours

PHYSICAL PROPERTIES

R 10 CP @ 27 ± 1°C

Pot life	15 mins
Mixed density	1.66 g/cc
Setting time	48 hours
Full chemical cure	7 days
Bond strength	> 1.5 N/mm ²
Compressive strength	26 N/mm ²
Flexural strength	6 N/mm ²
Tensile strength	3 N/mm ²

CHEMICAL RESISTANCE

R 10 CP is resistant to wide range of liquids and chemicals like most dilute acids (acetic, oleic, citric, hydrochloric, nitric and sulphuric acid), milk, animal fats and vegetable oils, sugars flavourings, essences, mineral oils, kerosene, petrol, mineral spirit, brake fluids, detergents etc. Chemical spillages should always be wiped up as quickly as possible and not be allowed to concentrate up by evaporation.

The data on the list of the chemicals found resistant to this product during our lab study is available on request.

COLOURS

R 10 CP is available in 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 and few concentrated chemicals leading to a "yellowing effect". This yellowing effect is dependent upon the amount of UV exposure and concentration of chemicals both in terms of intensity and time, and is more noticeable with lighter colours.

COVERAGE ESTIMATES

Pack Size	Coverage
14.15 kg	For Rendering: Approx. 1.7 m ² @ a thickness of 5mm
Part A 900 g	For Coving: Approx. 2 kg per RMT @ 2"x2" thick
Part B 1 kg	
Part C 12 kg	Approx. 4 kg per RMT @ 3"x3" thick
Part D 250 g	

APPLICATION INSTRUCTIONS

Surface Preparation

Note: The substrate should have a surface tensile strength of at least 1.5 N/mm².

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. All vertical surfaces must be of a rigid construction to resist deflection during the application process. Contaminated substrates should be mechanically prepared, either by grinding or contained shot blasting equipment or similar, and be vacuumed clean.

Priming

All substrates must first be primed with R 8 CP. One or more coats of R 8 CP may be required depending upon the condition and porosity of the substrate. Ensure that the primer is tacky prior to commencing application of R 10 CP.

Mixing

Before commencing, stir Part A and Part B individually. In a suitable mixing vessel, pour Part A and start mixing with a slow speed drilling machine fixed with a mixing paddle, add Part D (for

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pigmented version) and Part B and continue mixing. Finally add Part C and mix together to obtain a homogeneous mix. One or more packs may be mixed at the same time in order to maintain a quick rate of installation.

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 temperature above 5°C and where the atmospheric relative humidity (RH) is 90% or below. Substrates should be dry and not affected by rising dampness.
- 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 RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

R 10 CP has a shelf life of 6 months if kept in a dry, clean store between 5°C and 30°C in the original unopened container. 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 the product 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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