

UNICHEM AQUACOAT

TWO COMPONENT ACRYLIC POLYMER MODIFIED CEMENTITIOUS WATERPROOFING COATING

UCA-WP-10-0722

DESCRIPTION

UNICHEM AQUACOAT is a two component acrylic polymer modified cementitious coating supplied in ready to mix kits. UNICHEM AQUACOAT can be simply applied by stiff brush, roller, spray or trowel to obtain the desired texture.

USES

- ❖ To protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, oxygen and water. Flexible coating to bridge shrinkage cracks
- ❖ Waterproof coating for water tanks and reservoirs
- ❖ Backing to marble and granite, preventing water ingress and prevent staining

ADVANTAGES

- Resistant to carbon dioxide, chloride ions and water
- Allows water vapour to escape from the structure
- Suitable for water retaining structures
- Suitable for exterior use
- UNICHEM AQUACOAT consists of specially selected cements, graded hardwearing aggregates and additives supplied in powder form together with a liquid component of blended acrylic co-polymers and wetting agents.

STANDARDS

UNICHEM AQUACOAT meets the performance requirements of BS EN 14891 & BS EN 1504-2

TYPICAL PROPERTIES

PROPERTY	RESULT
PHYSICAL APPEARANCE	Grey Powder and Milky White Liquid
POT LIFE	50 mins @ 25 °C, 35 mins @ 35 °C
MIX RATIO	3:1 (POWDER:LIQUID), For Brush and Spray application
PACKAGING	20 kg kit 15 kg powder+5 kg polymer
COVERAGE*	Theoretically will yield 14 m ² /pack at 1mm thickness. *The exact coverage will depend upon the porosity, smoothness of surface, wastage and application method
TENSILE STRENGTH	>1 N/mm ² (BS EN 14891)
ADHESION STRENGTH 7 DAYS	>1 N/mm ² (BS EN 1542)
WATER VAPOUR PERMEABILITY	3.28 m
APPLICATION TEMPERATURE	5 TO 45 °C

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INSTRUCTIONS FOR USE

SURFACE PREPARATION

All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, laitance, and all traces of mould release oils and curing compounds. This is best achieved by lightly grit-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process. Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired appropriately.

It is essential that all surfaces to be treated be pre-soaked with clean water prior to application of UNICHEM AQUACOAT.

MIXING

UNICHEM AQUACOAT liquid should be poured from the plastic container into a clean mixing container. The powder component should be added gradually into the liquid while mixing in order to avoid lump formation. Mix for 2 to 4 minutes.

For brush application consistency, mix with a slow speed drill (500 r.p.m.) fitted with Mixing Paddle.

UNICHEM AQUACOAT should be used immediately after mixing. Do not mix more material than can be used within the pot life. Keep mixing UNICHEM AQUACOAT during the application procedure.

APPLICATION

UNICHEM AQUACOAT should be applied in two coats to achieve a total dry film thickness of not less than 2mm. May be applied with fibre mesh for additional strength.

The final coating must not be left exposed and must be plastered/tiled over.

Application of UNICHEM AQUACOAT on hot substrates (i.e. over 40°C surface temperature) will need the prior application of a primer coat.

Mix UNICHEM AQUACOAT and water in slurry like consistency and apply UNICHEM AQUACOAT over the primer whilst it is still wet.

For best results, surfaces should be damp. In order to obtain the protective properties of UNICHEM AQUACOAT, it is important that the correct rates of application are observed.

Use a short stiff brush (preferably 120 - 200mm width) and apply in one or two coats as required.

Spray applications should use the correct mixing ratio to obtain satisfactory consistency. In hot climatic conditions, it is likely that spray application will be the best for exterior decorative finishes. Nozzle size should be 3-4mm and pressure of 6-8 bars should be used.

It is recommended that for general resurfacing each coat should be 1mm thick. Areas subjected to light foot traffic should receive at least 2mm thickness of UNICHEM AQUACOAT and an additional 2mm should be applied if conditions are moderate to heavy pedestrian traffic.

CLEANING

UNICHEM AQUACOAT should be removed from tools and equipment with clean water immediately after use. Hardened material can be removed mechanically.

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APPLICATION LIMITATIONS

- Where subsequent coatings or paints are required, trials should be conducted to ensure compatibility
- Should not be applied if the air or substrate temperature is greater than 45°C. This may result in different colour shades.
- Should not be applied if the temperature of the substrate is below 5°C.
- If there is a likelihood of exposure to frost within 48 hours of the application, do not proceed with the application
- UNICHEM AQUACOAT should not be applied in windy conditions where early-age dust adhesion may occur, or where rain is likely within 2 hours at 20°C or 20 hours at 5°C (up to 80% RH).

STORAGE

UNICHEM AQUACOAT Shelf life is 12 months in unopened packs. UNICHEM AQUACOAT should be protected from extremes of temperature. Store in cool, dry, ventilated areas. Protect the powder component from sources of moisture and humidity. The liquid components must not be allowed to freeze.

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SAFETY PRECAUTIONS

UNICHEM AQUACOAT contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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