

UNICHEM POLYCRETE

ACRYLIC POLYMER FOR PREPARATION OF ONSITE WATERPROOFING MEMBRANE WITH CEMENT

UCA-WP-02-0722

DESCRIPTION

UNICHEM POLYCRETE is a single component acrylic based polymer when blended with cement forms a composite polymer modified cementitious waterproofing system, when used in conjunction with fibre mesh forms a tough hard wearing surface.

USES

- ❖ For producing onsite water proofing slurry when mixed with cement.
- ❖ Waterproofing of toilets, terraces, water retaining structures
- ❖ Prepare Polymer modified cementitious render

ADVANTAGES

- Develops excellent bond to most building materials.
- Reduces or prevents salt penetration into concrete.
- Resistance to ultraviolet light, chemicals (such as mild acids, alkalis)
- Good Hydrostatic Pressure
- Non-flammable & Non toxic

TYPICAL PROPERTIES

APPEARANCE	MILKY WHITE EMULSION
SPECIFIC GRAVITY	0.97 – 1.01 @ 25 °C.
POT LIFE	Approx. 30 minutes (@2:1, Cement : Polycrete) at 25 °C
COVERAGE	Refer page 3 for coverage estimations
PACKAGING	5,20 & 200 LITRE
pH	8 to 11
MIXED MORTAR DENSITY	2 – 2.2 g/cc

THE FOLLOWING PROPERTIES ARE AT 2:1 MIX RATIO (BY WEIGHT, CEMENT : POLYCRETE)

PERMEABILITY TO WATER VAPOR	35 m (class II)
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STANDARDS

UNICHEM POLYCRETE meets the requirements of BS EN 1504-2:2004

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INSTRUCTIONS FOR USE

SURFACE PREPARATION

Prior to application of UNICHEM POLYCRETE, surface must be prepared as mentioned below to avoid failure :

The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits of contamination which could affect the bond between the surface and the coating. This can be done by scarifying, grinding, water blasting, sand blasting, acid washing or by any other approved method.

New flat surface like sub-base concrete shall be made reasonably smooth so as not to impede the application of UNICHEM POLYCRETE coating and to avoid sharp projections.

All concrete surfaces shall be thoroughly pre-wetted for at least one hour prior to the application of UNICHEM POLYCRETE coating by pouring water on flat surface or by spraying ample water on vertical/inclined surfaces. Ensure that surface is only damp during application of UNICHEM POLYCRETE coating. There shall not be any standing water.

Depressions are filled and leveled using UNICHEM POLYCRETE. For filling depressions or bug holes, the mixing ratio is 1 kg cement:1.5 by silica sand and 0.5 kg UNICHEM POLYCRETE.

MIXING

UNICHEM POLYCRETE is mixed with neat cement in the ratio 2:1 (by weight, Cement: Polycrete). The mix has to be stirred thoroughly and allowed to stand for 2-3 minutes to release any entrapped air. The mix shall be free of any lumps.

APPLICATION

The mix can be applied by brush, roller or airless spray equipment. on prepared surface. Two or more coats are recommended. First coat should be allowed to dry for 5-6 hours.

CURING

During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions. No traffic shall be allowed on a UNICHEM POLYCRETE treated surface within 48 hours after application.

After initial period of 6-8 hrs, curing may be aided by spraying fine water mist over the coated surface up 24 hrs. After this the coating shall be allowed to air dry for a period of 2-3 days. Water immersion if required may be done after 3 days at an ambient temperature of 30°C and above. If the temperatures are below 15°C, then adequate time generally about 14 days shall be allowed before exposing the coating to water or traffic. Do not apply if temperature is below 5°C or above 40°C during the time of application.

CLEANING

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

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Estimating Yield/Coverage Unichem Polycrete Coating

Mix Proportion : 100 kg cement : 50 kg Unichem Polycrete

Material	1 coat on concrete	2 coats on concrete
	Kg/m ²	Kg/m ²
Cement	0.50	0.80
Unichem Polycrete	0.25	0.40

Unichem Polycrete Topping

Mix Proportion : 100 kg cement
: 50 kg Unichem Polycrete

Material	Quantities of Material in Kg for	
	One cubic meter	1sq.m for 1.5mm thickness
Cement	850	1.28
Unichem Polycrete polymer	425	0.64
Fine Silica Sand	885	1.32
Total Weight in kg	2160	3.24

STORAGE & SHELF LIFE

UNICHEM POLYCRETE should be protected from extremes of temperature. It has a minimum shelf life of 12 month in unopened packaging.

SAFETY PRECAUTIONS

UNICHEM POLYCRETE is nontoxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire: UNICHEM POLYCRETE is non-flammable and non-hazardous.

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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