

Product Data Sheet

UNICHEM FLEXIHYBRID PU ROOFCOAT

PU MODIFIED ACRYLIC ELASTOMERIC WATERPROOF COATING

UCA-WP-11-0722

DESCRIPTION

UNICHEM FLEXIHYBRID PU ROOFCOAT is a flexible, cold applied waterborne liquid applied waterproofing coating based on PU modified acrylic dispersion. Applied as a liquid it cures to form a durable, protective, waterproof membrane. It is highly elastic and UV resistant with good crack bridging capacity.

It is applied by brush or roller to a thick highly durable coating. It can be applied on concrete asbestos, wood, brick/stone, tile and textiles. It is a single component emulsion containing inert pigments and has a brushable consistency.

USES

- UNICHEM FLEXIHYBRID PU ROOFCOAT is primarily used for protection of roofs and designed for the protection of concrete structures against carbonation and chloride ingress.
- The product is also suitable as a seamless and elastomeric waterproofing coating for under terrazzo or tile floors, shower pans, kitchen, laundry and bathroom floors, timber, asbestos/fiber cement and zinc sheets, asphalt, built-up felt and tile

ADVANTAGES

 Durability: High Acrylic polymer content combined with Polyurethane dispersion ensures excellent durability

•Elastomeric: Improved tensile strength and crack bridging properties.

• Ease of use: Very easy to apply by brush, roller or airless spray and is ready to use .

- •Protective: Barrier against salts and atmospheric gases.
- High build: Masking imperfections on substrates.
- •Waterproof: Protects concrete from waterborne salts.

•U. V. Stable: Maintains its appearance, resistant to yellowing

STANDARDS

UNICHEM FLEXIHYBRID PU ROOFCOAT meets the performance requirements of BS EN 1504-2 & BS EN 12390- PART 8

TYPICAL PROPERTIES

PROPERTY	RESULT	
PHYSICAL APPEARANCE	WHITE / GREY PASTE	
DENSITY	1.25 <u>+</u> 0.2 Kg/ltr	
FINISH	SMOOTH	
PACKAGING	5 , 20 kg	
COVERAGE* Apply each coat at a rate of 0.6 to 0.9 kg/m ² . One coat applied at this rate will ideally yield 300 to 400 microns W.F.T *The exact coverage will depend upon the porosity, smoothness of surface, wastage and application method		
WET FILM THICKNESS (W.F.T)	0.7 TO 0.9 mm per coat	
DRY FILM THICKNESS (D.F.T)	0.3 TO 0.4 mm per coat	
SOLIDS %	50 - 60 (BY WEIGHT)	
WORKING TEMPERATURE	5 TO 50 °C	

UNICHEM FLEXIHYBRID PU ROOFCOAT

PU MODIFIED ACRYLIC ELASTOMERIC WATERPROOF COATING

UCA-WP-11-0722

MECHANICAL PROPERTIES

PROPERTY	RESULT	
ELONGATION (ASTM D412)	>320%	
TENSILE STRENGTH (ASTM D412)	>2 N/mm²	
WATER PERMEABILITY (BS EN 12390- PART 8)	Less than 6 mm	
PULL OFF ADHESION STRENGTH (ASTM C1583)	>2 N/mm²	
SHORE A HARDNESS [ASTM D2240 (15 ")]	62	
UV RESISTANCE (ASTM D822)	No visual defect observed	

The values given above for typical properties are average figures achieved in controlled laboratory conditions. Actual values obtained on site may show minor variations from those quote

INSTRUCTIONS FOR USE

SURFACE PREPARATION

The surface must be clean & free of oil, grease or other foreign matters. Surfaces must be primed by applying UNICHEM FLEXIHYBRID PU ROOFCOAT diluted with water (max. 10% by weight)

APPLICATION

UNICHEM FLEXIHYBRID PU ROOFCOAT can be applied by brush, roller or airless spray.

A typical four coat application system applied at the rate of 300 to 400 microns per coat would yield a total thickness of 1.5mm (1500 microns). In order to achieve this the application should be carried out at the rate of 0.6 to 0.9 kg per $m^2\,per$ coat.

DRYING TIME*

Temp.	Dry to Touch	Hard Dry
25ºC	8 Hrs	24 Hrs
35ºC	7 Hrs	20 Hrs
45ºC	6 Hrs	18 Hrs

Allow 24 hours between coats. A final curing time of 48 hours is adequate at normal working temperatures. Low temperatures and high atmospheric humidity will slow down the curing rate and vice versa.

Note: Never apply in rain or substrate immersed in water. Do not clean the cured coat with brooms that have bristles.

*Exact drying times will vary depending on the humidity, temperature and other factors. The above values must be treated only as a guideline

MIXING AND THINNING

Materials must be carefully mixed and thinned to application consistency with fresh water only. Care should be taken during mixing in order to avoid aeration of the material.

CLEANING

UNICHEM FLEXIHYBRID PU ROOFCOAT can be removed from equipment & tools with water .





UNICHEM FLEXIHYBRID PU ROOFCOAT

PU MODIFIED ACRYLIC ELASTOMERIC WATERPROOF COATING

UCA-WP-11-0722

SAFETY PRECAUTIONS

Take precautions to prevent material entering the eyes. Wear goggles while applying. Provide adequate ventilation. Wear face masks during application

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.

> P.O BOX 80071 BUILDING 1928 ROAD 5146, BLOCK 951 ASKAR, KINGDOM OF BAHRAIN

PHONE : +973 17830830 info@unichembahrain.com www.unichembahrain.com CR No. 51803





