
PRODUCT DESCRIPTION

A one component, water based, hydrophobic, high solids, non-yellowing, UV Resistant aliphatic polyester polyurethane dispersion liquid waterproofing membrane with 700% elongation and 25 n / mm² tensile strength.

INTENDED USES

PUD 700 EWM (Elastomeric Waterproofing Membrane) is formulated and designed as an ultra-performance, seamless permanent elastic liquid waterproofing membrane and coating for roofs any over 15,000 colour shades.

PUD 700 EWM is latest technology in high solids, waterborne fast set polyurethane dispersion coating systems designed to be applied by either airless spray, brush or roller application in multiple coats to achieve life spans of at least 15 years for exposed roof decks.

PUD 700 EWM will cure down to 5°C by physical air drying, it does not require ground or air moisture to cure.

PUD 700 EWM is used for waterproofing of exposed roofs either new or existing. Waterproofing of wet areas under tiles in bathrooms, kitchens, balconies etc.

PUD 700 EWM can be used to waterproof green roofs, planter boxes, flower boxes etc, and can also be used for re waterproofing of asphaltic roofs such bitumen membranes, synthetic waterproofing systems such as PVC membranes, old acrylic coatings and EPDM.

PUD 700 EWM can be used for the waterproofing and encapsulation of soft or rigid PU or polystyrene foam insulation and aluminium foil ducting systems.

PUD 700 EWM is highly suitable for use on intricate, highly detailed roofs where membranes are too difficult and troublesome to use.

The PUD 700 EWM can protect exposed from leaking for up to 15 years and is easily repairable for the life of the coating

PUD 700 EWM can be used to line and waterproof concrete and metal gutters.

PUD 700 Elastomeric Waterproofing Membrane



CHARACTERISTICS

- Tintable to over 15,000 colour shades
- Aliphatic, UV stable and highly weather resistant, no need for other topcoats
- Water based
- Based on the latest PUD fast set technology
- 700 % elongation at break at 1mm thick.
- Extremely simple application, one component – no curing agent required – applied by brush, roller or airless spray
- Free from isocyanates, harmful solvents
- Highly resistant to water
- Resistant to root penetration
- Excellent cracking bridging properties
- Provides water vapour permeability, allowing the substrate to breath
- Does not soften under heat or become brittle in the cold
- If white and with selected colour shade with IR reflective technology provides UV reflectivity and thermo-insulating properties
- Has excellent adhesion to most surfaces
- Easily repairable during the life of the system
- Does not require flames for installation
- Highly suitable to small and large surfaces
- Non-toxic and VOC compliant

PRODUCT INFORMATION

Colour	Pigmented
Finish	Low Sheen
Density	1.2 kg / lt
Volume Solids	70%
Typical Film Thickness	700µm Dry per coat (1000µm wet per coat maximum)
Theoretical Coverage	1 m ² /litre at 700 µm dft 0.5 m ² /litre at 1,400 µm dft
Method of Application	Brush, Roller and Airless Spray
Number of Coats	Check "Systems"
Temperature Resistance	Dry continuous - 90°C

DRYING INFORMATION

Temperature	10°C	20°C	25°C	40°C
Touch Dry	-	-	2 hrs.	-
Hard Dry (for light pedestrian traffic)	-	-	24 hrs.	-
Overcoating Data – See Limitations				
Substrate Temp.	10°C	20°C	25°C	40°C
Minimum	-	-	6 hrs.	-
Maximum	Extended*			
Note* 1 week full cure –Do not apply if rain is imminent.				

Waterproofing

SYSTEMS

Roof deck waterproofing systems

PUD 700 EWM is to be applied to a suitably primed surface, depending on the tensile requirement PUD 700 EWM can be reinforced with SW Glass Fibre matt or SW Polyester reinforcing.

In all application PUD 700 Elastomeric Waterproofing Membrane must be applied in minimum 2 layers to ensure a uniform and pinhole free surface.

Suitable substrates would include but are not limited to : Concrete, metals, Wood, tiles etc.

The below table is a guideline specification for different substrate to achieve different life spans

	5 Years	10 Years	15 Years
Total thickness	500µm	1,000um	1,300um + 500 um maintenance coat after 10 years
Substrates	Concrete, metal, wood, tiles, old acrylic coatings	Concrete, metals, wood, tiles, bituminous membranes and old acrylic	
Primer	Cementitious Substrates	Epoxy WB Primer Clear @ 8 m2 / lt	
	Brick & Stone	Epoxy WB Primer Clear @ 8m2 / lt	
	Ceramic Tiles	Epoxy WB GP Primer White @ 10m2 / lt	
	Wooden Substrates	Dilute PUD 700 EWM with 10% water	
	Metals – Galv, Ferrous, Lead, Copper, Aluminium, Brass or stainless steel	Anti-Corrosive Primer	
	Old Coatings	Check for adhesion and compatibility	
Bituminous Membranes & coatings	Check for adhesion and compatibility, prime with Anti-Corrosive Primer if necessary.		
System	PUD 700 EWM applied in two coats	PUD 700 EWM applied in 3 coats & reinforced with SW polyester reinforcing	PUD 700 EWM applied in 3 coats & reinforced with SW polyester reinforcing after 8-10 years a maintenance coat is to be applied

SURFACE PREPARATION

PUD 700 EWM system should only be applied to structurally sound roof areas. On flat roofs which have been dressed with large or medium sized chippings, these must be removed prior to application. A mechanical flail should be used to remove the chippings and then the areas swept down to all loose dirt and dust.

On Asphalt roofs, blisters should be cut out and the void filled Patching Compound Flexible. On felt remove, severe blister should be cut open and bonded flat.

Any areas of moss or lichen growth should be treated with **Fungicidal Wash** in accordance with the instructions.

Any surface to be protected must be clean, dry and firm, and this is especially important with glass, metallic or plastic surfaces.

At any wide joints (such as joints on corrugated roofs or poor fitting flashings) or where excessive movements can be expected (such as valley gutter joints) Apply a **Bridging Tape** over these areas.

Primers – further detailed application information is given in the product technical data sheets

Bituminous and porous surfaces: surfaces should be primer with **BP Primer or Anti-Corrosive primer.**

Glass, Previously Painted surfaces and most metal surfaces: should be primed with **Epoxy WB GP Primer,**

Damp and Green Concrete – should be primed with **Damp Proof Barrier coating or Epoxy Cureseal,** cure guidelines should then be followed.

PUD 700 Elastomeric Waterproofing Membrane



APPLICATION

Mixing

Material is supplied in plastic containers. This is a one component product and does not require a hardener.

Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.

No thinners should be added to this product

Application with reinforcing

SW Polyester Reinforcing should be secured into the **PUD 700 EWM** immediately after application of the 1st layer where necessary. The reinforcing must follow the contour of the surface and must not be pulled or stretch to leave hollow areas. This can be done by back rolling the SW Polyester reinforcing with a sponge roller.

After back rolling, PUD 700 EWM should then be brushed/sprayed onto and through the reinforcing, keeping the thickness of the **PUD 700 EWM** as even as possible, and no thicker than required to wet down the reinforcing.

The Second coat of **PUD 700 EWM** should then be applied using a good quality brush or airless spray a minimum of 4-6 hours after the first coat. The minimum overcoating interval will depend upon the roof temperature and drying conditions. Provided the first layer of **PUD 700 EWM** is clean there is no maximum overcoating time.

Do not apply **PUD 700 EWM** beyond the areas coated with primer.

By Airless Spray- -Minimum 180 bar, minimum 17 thou tip

Thinner

Typically, not thinned, but can be thinned up to 10% with water for sprayability, thinning 10% with water will result in a DFT 10% lower. Apply 10% extra material.

Cleaner

SA65 Thinner For dry paint and equipment
Water For wet paint

Work Stoppage

Do not allow material to remain in application equipment after use, thoroughly flush and clean all equipment with water. Seal the containers tightly after use to prevent drying out.

Clean Up

Clean all equipment immediately after use with water. It is advisable to periodically clean application equipment during the course of the working day.

Waterproofing

PUD 700 Elastomeric Waterproofing Membrane



Environment	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	7°C	No lower limit
Maximum	35°C**	45°C	90%

* or 3°C above the dew point

** Higher temperatures result in reduced sag resistance and faster cure

*in the winter months due consideration must be given to the early onset of condensation formation early afternoon and application should be discontinued before this time.

LIMITATIONS

- After applying the final coat, allow to dry for two days prior to wetting or rain
- It should be noted that the success of a waterproofing system is dependent on the skill of the person applying the products.
- Heavy wet film thicknesses, exceeding 1500um Wet should be avoided as mud cracking can occur
- Material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Speccoats™ makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating

PUD 700 Elastomeric Waterproofing Membrane



UNIT SIZE**5, 20Lt**

STORAGE**Shelf Life**

12 months minimum at 25°C

Subject to inspection thereafter. Store in dry conditions out of direct sunlight away from source of heat or ignition

IMPORTANT NOTE

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

PRECAUTIONS

For complete safety and handling information please refer to the appropriate **Safety Data Sheets** prior to using this product
