

# EUCOPROOF WPU

## POLYURETHANE COATING WATERPROOFING MEMBRANE

### DESCRIPTION

**Eucoproof WPU** is one-component, fibre reinforced, waterbased Polyurethane Aliphatic Dispersions (PUD's) polymer waterproofing coating and cures into a tough elastic waterproofing membrane.

**Eucoproof WPU** has excellent weathering resistance, elongation and crack bridging properties.

### OUTSTANDING FEATURES

- Ready to use, one component system
- Environmentally friendly
- Non-toxic and non-flammable
- Low VOC content
- Applies easily by roller or brush as coating system, provide full bonded monolithic waterproofing membrane
- Elastomeric
- Crack bridging ability
- Able to take foot traffic when fully cured
- Can be painted over with elastic paint when fully cured
- Compatible with cement mortar adhesive
- Can be tiled over successfully

### RECOMMENDED USES

**Eucoproof WPU** is designed to use either as exposed or concealed waterproofing membrane for :

- RC roof deck
- Roof tiles
- External walls
- Parapet walls
- Metal roof & gutters
- RC concrete car porch decks
- RC gutters
- Kitchen, bathrooms, balconies, terraces

### TECHNICAL DATA AND PROPERTIES

Typical properties at 25°C and 50% Relative Humidity conditions and environment	
Color	Milky White, Grey
Resin	Polyurethane Dispersions (PUD's) Polymer
Density	Approx. 1.25kg/liter
Solid Content	Approx. 60% by weight
Water absorption (BS 1881: Part 122)	≤ 3.3%
Water vapour transmission (ASTM E 96)	≤ 3.15 g/m <sup>2</sup> /24h
Adhesion to concrete (ASTM D 4541)	> 0.5 N/mm <sup>2</sup>
Tensile strength (ASTM D 412)	> 5.0 N/mm <sup>2</sup>
Elongation at break (ASNZS 4858-2004)	≥ 300% Class III
Crack bridging (ASTM C 836)	No cracking at 2mm width
Hardness (Shore A) (ASTM D 2240)	> 50
QUV accelerated weathering @ 2000 cycles (ASTM G 53)	No color change No blistering
Re-coating Time	≥ 60 mins
Drying Time	24 hours depending on temperature and RH
Specification are subjected to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods, site conditions and use environment.	

## SURFACE PREPARATION

Substrate surfaces must be thoroughly cleaned and dry before applying **Eucopeproof WPU** coating waterproofing membrane.

All substrate surfaces must be sound, clean, dry and free of dust, grease, wax, oil, laitance, curing compounds, excess mortar or loose particles and other contaminants that likely to affect the coating bonding. Cracks, honeycombs and other defects must be repaired using suitable cement mortar.

All joints shall be prepare and filled with suitable filler or sealant.

## PRIMING

The clean surface shall be primed by diluting of **Eucopeproof WPU** with clean water at the ratio of 1 : 1 and apply at the rate of 6m<sup>2</sup> / litre.

## APPLICATION

Stir **Eucopeproof WPU** to an even smooth paste emulsion consistency before use.

**Eucopeproof WPU** can be applied onto the prepared substrate surfaces using a roller or brush. Apply the material well onto the substrate surfaces to achieve full bond.

The application of **Eucopeproof WPU** waterproofing coating shall be done in minimum of two (2) layers with criss-cross manner, the first layer in one direction and the second layer in a direction perpendicular to the first

layer. Apply the subsequent layers after 2~4 hours drying of the previous coat.

## PACKAGING

**Eucopeproof WPU** is available at 20kgs pail.

## SHELF LIFE AND STORAGE

**Eucopeproof WPU** has a shelf life of at least 12-months.

Store in a cool dry place, in an elevated condition.

## CURING

The finished **Eucopeproof WPU** must be protected before full cured. Curing shall be at least 72-hours to yield optimum strength.

When **Eucopeproof WPU** use as concealed waterproofing membrane. Protection boards or sheet must be used to protect the waterproofing membrane before back filling or topping with mortar or concrete.

## RECOMMENDED COVERAGE

Application and coverage rate as follows :  
2kg/m<sup>2</sup>, (2)-layers at 1kg/m<sup>2</sup>/layer.

## HANDLING PRECAUTIONS

All tools, equipments and surrounding areas can be cleaned with clean water before the product sets.

This product is considered non-hazardous and non-toxic.