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a.b.e.® Construction Chemicals

ECO Friendly water based liquid applied polyurethane

abe.®proof PU ECO Polyurethane

HIGH PERFORMANCE ECO FRIENDLY PU LIQUID APPLIED WATERPROOFING MEMBRANE

DESCRIPTION

abe.®proof PU ECO is a flexible liquid applied single-pack water based polyurethane waterproofing membrane which is fast drying and has excellent chemical resistance properties.

USES

abe.®proof PU ECO may be used in the following applications:

- All types of roofs, balconies and decks
- Retaining walls and basements
- Waterproofing, repair and rust protection for gutters, troughs and tanks
- Waterproofing and protection of parapet walls and flashings
- Waterproofing of external areas such as suspended structures
- Basements, tanking & facades
- Lining faulty gutters and down-pipes
- Eliminates soldering of cracked nonferrous roof valleys and flashings
- Over-coating of old sound membrane or liquid waterproofing systems

ADVANTAGES

- Free of tar, bitumen, solvents or any hazardous substance
- Certified under Singapore green label scheme as environmentally friendly water based waterproofing membrane
- High elongation, non-blistering and uv resistant
- Fast drying characteristics
- Suitable for use in confined areas
- Can be applied on damp surface making it ideal for use as a concealed waterproofing system for terraces and rooftops
- No mixing required, easy to use single component liquid applied system (highly recommended for waterproofing high detail areas)
- Flexible, seamless application, high solid content with rapid curing properties
- Does not stain tiles or marble

GUTTERS

PARAPET WALLS & FLASHINGS

IBR & CONCRETE ROOFS

OVER EXISTING TORCH-ON

TYPICAL PHYSICAL PROPERTIES	
Solid Content	Approx. 70%
Viscosity	4000 - 6000 cP
Density	1.42
Elongation at break @ 7 days	> 300%
Tensile @ 7 days	> 1.2 MPa
Shore hardness	> 40
Water vapor transmission	> 20 g/m²/24 hrs
Minimum recommended dft	0.6mm

COLOUR

Grey (90401-020)

SURFACE PREPARATION

All surfaces to be clean, dry, sound and free of all laitance, grease, oil or loose and flaking particles.

Concrete:

All new concrete slabs must be allowed to cure for at least 6 weeks. Old concrete must be cleaned with a strong commercial grade detergent or degreaser, then thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.

Render:

Newly rendered surfaces must be allowed to cure for at least 7 days.

Lightweight Blocks:

Prime the surfaces with **abe.®proof acrylic primer** prior to applying **abe.®proof PU ECO.**

Metal Surfaces:

All metal surfaces must be totally free of rust. Prime metal surfaces with an etch primer.

Old waterproofing (liquid or membrane):

Any surface to be coated should be CLEAN and MECHANICALLY SOUND.

Previously painted systems must be scrubbed using copious quantities of clean water.

Conditioned bitumen surfaces

Ageing of the bitumen yields considerable quantity of water soluble dust derived from the oxidisation process of the bitumen surface.

This water soluble dust must be washed off the immediate surface by scrubbing and using copious quantities of clean water.

Cracks:

Hairline cracks up to 1mm wide which experience no movement, may be duly filled up with **abe.®proof PU ECO** before applying another layer over the area to be waterproofed.

Structural cracks which experience movement must be opened up and sealed with **flexothane 1** and a polypropylene tape securely placed over the sealed crack. **abe.®proof PU ECO** should then be applied over the area and on the tape and allowed to cure.

Drain Application:

Treat the inside and around the drain with a separate layer of **abe.®proof PU ECO** before proceeding with the actual application of the whole surface area.

PRECAUTIONARY NOTES

Do not allow the product to freeze.

Do not apply if the temperature is in excess of 45°C or less than 5°C.

Delay external applications when inclement weather is imminent.

Do not thin **abe.®proof PU ECO,** as it is supplied ready for use.

Ponding should be avoided at least 48 hours after the final application of **abe.®proof PU ECO**.

For the intended use of **abe.®proof PU ECO** involving unfamiliar applications/substrates, contact **a.b.e.® Construction Chemicals** for advice.

BONDING/PRIMING

Use **abe.®proof acrylic primer** for priming porous, substandard or bitumen impregnated substrates or membranes. Please consult relevant technical data sheet for details.

MIXING

Stir well before use.

APPLICATION

All surfaces to be treated must be as clean and dry as possible.

It may be necessary to abrade areas where dirt or scale cannot be removed with a stiff broom.

Check surface for cracks, splits, flashing, coverings, etc.

abe.®proof PU ECO should be applied in two coats directly from the pail.

Apply 1st coat of **abe.®proof PU ECO** to the whole area and allow to cure, approx. 2-4 hours. (temperature dependent) Apply the 2nd coat in a perpendicular direction to the 1st coat.

abe.®proof PU ECO can be applied by brush or roller. Normally a minimum of 2 coats is required.

NOTE: Reinforcement of corners with reinforcement netting where a 90° angle or greater is encountered is advised.

COVERAGE

Recommended for per 20L pail:

30 - 46 m^2 per coat (about 0.35mm DFT) or 15 - 23 m^2 per 2 coats.

CLEANING OF EQUIPMENT

Tools, brushes and mixing equipment should be cleaned immediately after use and before material has set with water.

PROTECTION/MAINTENANCE ON COMPLETION

Whilst **abe.®proof PU ECO** is designed for an extended life, it is important to apply a maintenance coat (**abe.®proof PU ECO**) every 5 years.

Note: Do not cover final cured system with stones or stone chippings.

MODEL SPECIFICATION

The waterproofing/flashing system will be **abe.®proof PU ECO**, a single-pack, elastic water based PU compound applied in accordance with the recommendations of **a.b.e.® Construction Chemicals.**

PACKAGING

20L pail

HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local **a.b.e.® Construction Chemicals** sales representative.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied - accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

DATE UPDATED: 13/09/2021