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a.b.e.® Construction Chemicals

abe® PU liquid rubber

DO-IT-YOURSELF

HIGH PERFORMANCE ECO FRIENDLY PU LIQUID APPLIED WATERPROOFING MEMBRANE



Gutters



Parapet Walls & Flashings



IBR & Concrete Roofs



Over existing Torch-on

WATERPROOFING

DESCRIPTION

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

USES

abe® PU liquid rubber may be used in the following applications:

- All types of roofs, balconies and decks
- Waterproofing and protection of parapet walls and flashings
- Waterproofing of external areas such as suspended structures & façades
- 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

COLOURS



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	0.6 mm

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® PU liquid rubber**.

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 oxidation 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® PU liquid rubber** before applying another layer over the area to be waterproofed.

Static cracks that have no movement must be opened up and sealed with **flexothane 27** and a polypropylene tape securely placed over the sealed crack.

abe® PU liquid rubber 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® PU liquid rubber** 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® PU liquid rubber**, as it is supplied ready for use. Ponding should be avoided at least 48 hours after the final application of **abe® PU liquid rubber**.

For the intended use of **abe® PU liquid rubber** 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® PU liquid rubber** should be applied in two coats directly from the pail.

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a.b.e.® is an ISO 9001:2015 registered company
Registration Number: 1982/005383/07
101 Main Reef Road, Boksburg North, 1459
PO Box 5100, Boksburg North, 1461

Apply 1st coat of **abe® PU liquid rubber** 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® PU liquid rubber can be applied by brush or roller. Normally 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 5L pail: 7.5 – 11.5 m² per coat (about 0.35 mm DFT) or 3.75 – 5.75 m² per 2 coats.

TIP: To ensure the recommended dry film thickness is achieved, pre-measure the area in sections to the recommended square meters.

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® PU liquid rubber** is designed for an extended life, it is important to apply a maintenance coat every 5 years.

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

PACKAGING

5 L pail

HANDLING AND 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 AND SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety datasheets and container labels for safe use, physical and health hazard information. The safety datasheet 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.