

ESTOFLEX PU 980 (AR)

Two Component Polyurethane for Waterproofing and flooring

Description

Estoflex PU 980(AR) is a two component modified polyurethane (poly-isocyanate modified-chain) as excellent Waterproofing and medium duty flooring. Good chemical and abrasion resistant.

Uses

Estoflex PU 980(AR) area of application includes:

- Building or Apartment with medium duty exposed roof.
- Carpark.
- Planter boxes.
- Structure that require waterproof and elastic protective coating.
- Heavy-vibrated area (mechanical or mechanical room)
- Sport facilities
- Suitable for flat or sloping roof and podium deck.

Advantages

- Easy to apply using brush or roller or squeegee.
- Excellent bonding properties to concrete and mortar surface.
- Excellent Water-proof property.
- Good chemical and mechanical abrasion property.
- Unique elastic property of Urethane gives a great crack-bridging property.
- Seamless and flat application outcome.

Physical Properties

Form	Viscous colored liquid (A) Yellowish transparent liquid(B)
Color	Green, Grey
Density, g/mL	1.40 ± 0.1 (mixed)
Viscosity, cPs	2500 ± 500 (mixed)
Mixing Ratio	3 : 1
Pot Life at 25°C	Within 30 minutes
Drying Time at 25°C	Within 24 hours
Elongation	More than 450%
Tensile Strength	More than 2.5 MPa
Tear Strength	More than 15 MPa
Hardness (Shore A)	60 ± 5 (waterproofing) 80 ± 5 (flooring)

Application Instructions

Surface preparation

Long term durability of any floor/wall waterproofing is determined by adhesive bond achieved between waterproofing material and substrate. Correct and proper substrate preparation prior to body coat application is the most important step.

New Concrete

This concrete must be aged for 28 days and substrate moisture content must be less than 5%. Substrate should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excessive laitance can be removed by the use of mechanical methods.

Old Concrete

Substrate moisture content must be less than 5%, should not contain water repellent agent, pull off strength should exceed 1.5Mpa. A sound clean substrate is essential to achieve maximum adhesion. As for new concrete surface, removal of laitance by use of mechanical methods is preferable. Oil and grease penetration should be removed by the use of a proprietary chemical degreaser or by hot compressed air treatment. Any damaged areas or surface irregularities should be repaired using one of the Epoxy Putty

Excessive dust, debris, and others contaminant material should be removed using high pressure blower or industrial vacuum cleaner.

Priming

Primer must be applied according to the Technical Data (see **Estoflex PU 980 Primer** Technical Data). **Estoflex PU 980(AR)** should be apply when primer achieved the tacky-free state (60 minutes at 25 °C).

Placing

- Mix thoroughly **Estoflex PU 980(AR)** Part A and Part B using medium speed (300 – 500 RPM) mixer with spiral-shaped steel stirrer for 3 minutes to achieve consistent quality and color.
- Apply thoroughly onto primed surface using brush, roller or squeegee application depends on application condition.

Additional Information

Cleaning

Tools and equipment just can be clean with acetone or suitable thinner immediately after use. Cured product only can be removed using mechanical action.

Packing & Size

Estoflex PU 980 (AR)	20 kg/sets consist of : (15 kg/pail of Part A) (5 kg/pail of Part B)
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Coverage

Estoflex PU 980 (AR)	1.10 – 1.50 kg/m ² per mm thickness consumption
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Technical Support

Estop offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifies, end-users and contractors, as well as on site technical assistance.

Storage

Store in the dry conditions between 5 – 30 °C.
Put away from sources of heat and naked flames in the original, unopened packs.
If stored at high temperatures the shelf life may be reduced.
Estoflex PU 980(AR) should be protected from frost.

Shelf Life

8 months in an unopened and undamaged packaging.

Precaution

Application condition:

1. Relative Humidity (RH) less than 85%.
2. Surface moisture less than 5%.
3. Ambient Temperature 5 – 35 °C.

It must be noted that **Estoflex PU 980(AR)** is parts of Polyurethane Waterproofing Systems Application, it may need other products to achieve the full Polyurethane Waterproofing Systems.

Safety Measures

Impervious gloves and barrier cream should be used when handling these products.

Eye protection should be worn. In case of contact with eyes, wash thoroughly with plenty of water and seek medical advice if symptoms persist.

If contact with skin occurs, it must be removed before curing takes place. Wash off with an industrial skin clearer followed by plenty of soap and water. Do not use solvent.

Ensure adequate ventilation when using these products.

Disposal

Spillage of products should be absorbed on to earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local waste disposal regulations. For further information, refer to the Product Material Safety Data Sheet.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

Important Note

Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.