

DUROPROOF PU Grey

Single component polyurethane membrane

Duroproof PU Grey is a single component liquid polyurethane which cures to form a tough and permanently flexible waterproof membrane.

PRINCIPLE CHARACTERISTICS

- Single component, ready to use.
- Excellent flexibility.
- Seamless, impermeable membrane.
- Excellent chemical resistance.
- Excellent adhesion to a wide range of substrates.
- Good resistance to UV light

USE AREAS

- Reinforced concrete roofs and decks.
- Waterproofing external balconies, podium levels, prior to the application of a variety of surface toppings , such as tiles, pavers and suitable textured finishes.
- Tanking and below grade waterproofing.

GENERAL

Appearance	Liquid polyurethane
Viscosity	20 000 ± 500 @25°C
Weather Resistance	Good
Solid Content %	95 ± 2
Modulus Max	=1.7mPa
Elongation at break	400-500%
Water permeability	0.18mg/pasm
Wet film per coat	800microns (0.8mm), 0.8L/sq.metre per coat
Dry Film Thickness	0.76mm/coat, 2 coats
Clean up	Xylene
Shelf life	6 months in unopened container @ 20°C

CURING

Re-coat after 24 hours @25°C & 75% RH allow 72 hours @25°C & 75% RH for a full cure.

Tiling:

Allow 12 to 24 hours to cure before laying an un-bonded screed and then tiling.

PACKAGING

- 20Litres

SUBSTRATE PREPARATION

Ensure surfaces are firmly fixed to manufacturers directions. Surface must be free of dirt, dust, loose particles, oil, contaminates, curing compounds and flaking concrete, etc. Acid etch if necessary. Concrete must be a minimum strength of 20Mps and have cured a minimum of 28 days. Surface must be dry, with a moisture content below 15%. Fill all screw holes, cracks and voids with PU Sealant . Install leak control flanges around all pipe penetrations.

PRIMING

Prime surfaces with PU Solvent Based primer applied at a rate of 0.2-0.3 lts/sq mtr and allow to dry for 3 hours @ 25°C & 75% RH, dependent upon surface porosity. Damp areas and areas subject to rising damp should be sealed with Duromix WBE. Allow primer to dry prior to membrane application and refer WBE technical data sheet for full instructions.

DETAILING

Apply a 25mm fillet of PU Sealant between all horizontal and horizontal joints and to all horizontal to vertical junctions, and around pipe/column penetrations. Around rain water and floor waste outlets, apply membrane to 0.75mm dry film thickness and dress up to penetrations and down into waste outlets. To joins in sheet flooring, tape and bandage over the PU sealant joint. Cut out cracks in concrete to 6mm minimum width by 3mm minimum depth and fill with PU Sealant before application of the membrane.

APPLICATION

To the prepared surface, apply DUROPROOF PU GREY by notched squeegee, brush, roller or trowel in two coats to achieve a minimum dry film thickness of 1.5mm. The first coat to be applied at 0.8mm WFT and a second coat must be applied within a maximum of 24 hours to achieve an intercoat bond. Turn membrane up at walls and penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify if necessary. If membrane becomes dirty between coats, clean with Xylene to ensure adhesion. Allow 72 hours to dry before covering.

PRECAUTIONS

Do not apply above 30°C or below 10°C ambient temperature. Do not cover until fully dry. Protect membrane against damage before and during backfilling or covering. Protect membrane against the action of roots.

WARNINGS AND HAZARDS:

Keep away from heat and flame. Use only with adequate ventilation. Refer to MSDS prior to use.

HANDLING AND STORAGE:

Duroproof™ PU Grey can be stored for 6 months @ 20°C. Avoid prolonged exposure to humidity or high temperature. Avoid contamination with water or alcohols. This product is very sensitive to air and moisture. Once opened, containers should NOT be resealed for future use.

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**DUROTECH**

The information provided in this technical bulletin is as correct in detail as possible and is intended to give a fair description of the product and its capabilities. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. The product is guaranteed providing that it is applied in accordance with the manufacturer's instructions as stated in this data sheet and any relevant Standard or Code and provided that the building and installation is structurally sound. Durotech terms and conditions of sale apply.