



TECHSEAL

High Performance PU Membrane



INSTALLATION GUIDE

AREAS OF APPLICATION

TechSeal is recommended for use on Flat Roof overlay systems and can be used on traditional built-up roofing in both new construction and Refurbishment projects. Its cold applied seamless finish makes it ideal for roofs, green roofs, balconies, terraces, podium decks and gutters and as a detailing product for other roofing systems, including asphalt, bituminous felt, concrete, PVC and metal surfaces.

FEATURES AND BENEFITS

- **Fast Curing:**
Rain Proof after 2h, Cured after 4 h.
- **Single Component/ No Mixing.**
- **Light grey Base Coat/ Dark Grey Top Coat**
- **2 Coat System - Fully Reinforced.**
- **Easy Application. 6kg and 25kg drums**
- **Application by Roller, Brush or Airless Spray.**



Tech Seal Base Coat

This light grey base coat is a one component liquid semi-thixotropic waterproofing composition, after polymerization gives an elastomeric, cold-applied polyurethane membrane. The membrane cures in a continuous and elastic form, as a totally adhered layer. This waterproofing layer guarantees total water tightness and withstands building movements. With the addition of the matting this creates the base layer of the TechSeal system.

Tech Seal Top Coat

This dark grey top coat is also a one component liquid semi-thixotropic waterproofing composition, after polymerization gives the same elastomeric, cold-applied polyurethane membrane finish. When used following the installation of the base coat, this finalises the TechSeal system.

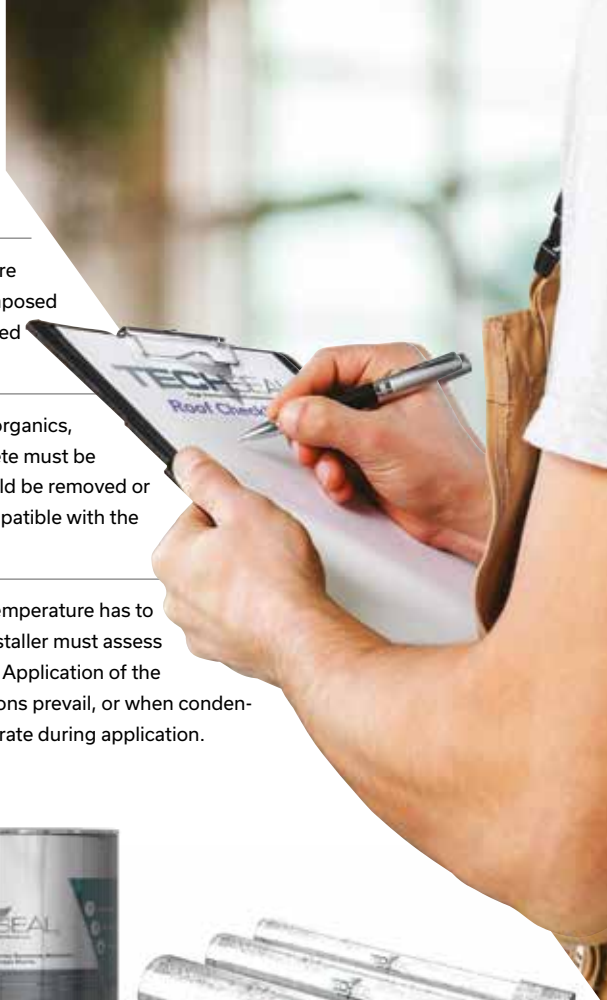
Tech Seal Pre-Installation

Before works commence, you should ensure that the surfaces to receive the new roofing system are acceptable.

Retained components from the existing structure must be sound and capable of accepting the imposed loading of the new roofing system and associated installation procedures.

Surfaces must be clean and dry, free from any organics, dust and any other loose materials. New concrete must be well-cured. Defects and sharp projections should be removed or made good and the entire surface must be compatible with the proposed coating system.

Do not undertake work in wet conditions, the temperature has to be 3 degrees higher than the dew point. The installer must assess the temperature on the system application day. Application of the system should not take place when wet conditions prevail, or when condensation is present or will be present on the substrate during application.



Tech Seal Primers

Porosity Primer

Flexible aromatic one-component, moisture cure polyurethane resin for sealing and priming bituminous supports, wood and concrete. This resin cures by air moisture giving a flexible coating. Polyurethane primer for re coating old bituminous layers with polyurea or polyurethane waterproofing systems.

PU Activator

Is recommended for GRP, metal, PVC and existing PU coatings. It allows waterproofing membranes to obtain a high adhesion link between the substrate and the coating on top, so that there is a chemical anchorage between both elements.

Tech Seal Matting

This is used to create a reinforced layer on the base coat, upon which the topcoat is then applied.

Tech Seal Application Guide



NOTE: Do not apply any Primer or Base Coat to a wet surface

Porosity Primer

Recommended amounts will range from 100 to 300 g/m² dependant on substrate.

PU Sealer

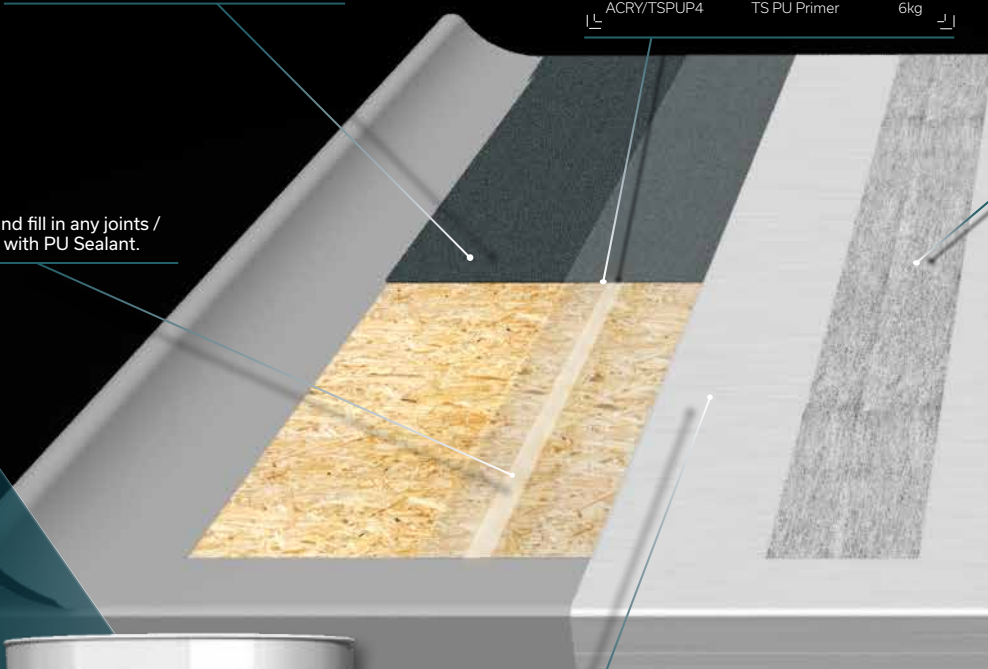
Recommended amounts will range from 50 to 100 g/m² dependant on substrate.

Tech Seal Primers

Prod. Code	Description	Size
ACRY/TSP4	TS Porosity Primer	4kg
ACRY/TSP4	TS PU Primer	6kg

Clean substrate of any loose materials, dirt, grease etc and dry the surface.

Tape and fill in any joints / cracks with PU Sealant.



Tech Seal Base Coat

Prod. Code	Colour	Size	Pit. Qty
ACRY/TSP4G5	Light Grey	6kg	72
ACRY/TSP4G25	Light Grey	25kg	20

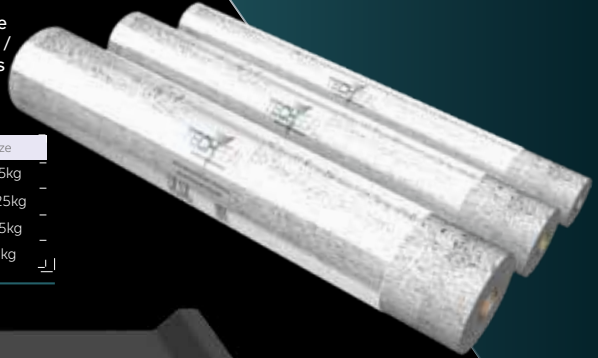
Apply the Base Coat of minimum 1 kg per sq m to all the flat areas and again roll in the Glass Fibre Reinforcement with a metal consolidator / bubble buster and make sure this reinforcement is saturated, Allow to dry (4- 5 hours) depending on the temperature and humidity)



After the Base Coat is dry inspect the Base Coat to see if any Fibreglass is sticking up / Wicking - and if so sand/ abrade the fibres to achieve a flat finish.

Tech Seal Matting

Prod. Code	Description	Size
GMATTECH/225/6.75	TS FG Matting	6.75kg
GMATTECH/225/11.25	TS FG Matting	11.25kg
GMATTECH/225/16.5	TS FG Matting	16.5kg
GMATTECH/225/33	TS FG Matting	33kg



Tech Seal Top Coat

Prod. Code	Colour	Size	Plt. Qty
ACRY/TSDG5	Dark Grey	6kg	72
ACRY/TSPDG25	Dark Grey	25kg	20

Apply the final dark grey Top Coat of 1 kg per sq m over all the upstands/Roof-Outlets/ details and then over all the flat roof area.



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