



Expanproof* 600UV

Liquid applied single component, elastomeric, UV stable, polyurethane waterproofing membrane

Uses

High elasticity, excellent bond with concrete and steel, UV stable, and excellent crack bridging properties of Expanproof* 600UV makes it ideal for a wide range of water/vapour proofing applications such as foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, patios, bridges, precincts, inspection pits, water retaining structures (External application), sewage works, roofs, and roof gardens. The excellent chemical resistance of Expanproof* 600UV makes it particularly suitable for areas where aggressive ground water conditions prevail.

Advantages

- Excellent UV resistant
- High tensile strength & elongation
- Highly elastomeric
- Excellent crack bridging properties
- Single component, seamless coating, easy and fast application by brush, roller or spray
- Chemical and abrasion resistant
- Fast application.
- Excellent adhesion to substrates
- Environmental friendly
- High resistance against chlorides, sulphates, bacteria, oil, and common fuels.

Description

Expanproof* 600UV single component polyurethane cures by reaction with atmospheric moisture to give a tough elastomeric waterproof membrane. It is supplied in a single grade to meet all site application methods and requirements.

Expanproof* 600UV is available in white, grey and black color, (Special color can be manufacture on request depend on required quantity)

Technical support

Fospak offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Properties

Appearance	: Viscos liquid
Solid Content	: 81% ± 2
Initial cure at 35 °C	: 24 hours
Final cure 35 °C	: 7 days
Tensile strength ASTM D-412	: > 5 N/mm ²
Tear strength ASTM D-412	: > 10 N/mm
Elongation ASTM D-412	: > 500%
UV resistance	: pass at 300 hours
Shore A Hardness ASTM D-2240:	40 - 50
Hydrostatic pressure	
@ 5 bar (50m) BS-EN-12390	: No leakage
Chemical resistance	: Dilute acids & alkalis, chlorides, sulphates, bacteria, oil and fuel.
Application temperature	: 5 to 50 °C
Service temperature	: - 40 to 85
Crack bridging	: up-to 3 mm

Surface Preparation

Surface preparation plays a very important role in determining the durability and life of coating, therefore proper care should be taken in surface preparation, concrete should be minimum 28 days cured before the coating is applied, all concrete surfaces should be free from dust, dirt, curing compound, oil, and steel surfaces must be free of rust and scaling, clean the surface thoroughly to remove all loosely adhering particles and cement laitance, it is recommended to use a light mechanical grinder for cleaning. Cracks and pot holes should be repaired with suitable material.

Primer

Apply Expanprime* PU as a primer on prepared substrate at the rate of 5 m² / Ltr., this will give approximate 250 microns dry film thickness. The coating is applied when the primer is completely dry. However, in all circumstance, the coating has to be applied within 24 hours of its application.



Coating

Apply Expanproof* 600UV @ 0.60 Ltr./m² per coat, on dry primed substrate. Allow to dry first coat for at least 12 hours prior to the application of second coat, the second coat is to be applied at the same coverage rate, two coats of Expanproof* 600UV will give a dry film thickness of approximate 1 mm, allow Expanproof* 600UV to cure for at least 3 days

Limitation

Do not apply Expanproof* 600UV on wet or damp surfaces, ensure the moisture content of concrete surface is less than 5%, provide adequate ventilation when applying in confined spaces.

Never apply Expanproof* 600UV on porous surfaces such as blocks cement boards & lean cement, sand screed without the priming coat.

For exposed areas, such as roofs & external walls, it is highly recommended to apply Expanproof* 600UV when the ambient temperatures is low, suitable time is early morning or evenings.

Application should not commence if the temperature of the substrate is below 5°C.

Health and safety

Some people are sensitive to resin systems. If contact with the resin occurs it must be removed before it hardens with a resin removing cream or with skin cleanser, follow by washing with soap and water. Do not use solvent. If contact with eye wash thoroughly with plenty of water and seek medical advice.

For further information consult the Material Safety Data Sheet available for this product.

Estimating

Supply

Expanproof* 600UV	: 20 Liter Drums
Expanprime* PU	: 5 & 20 Liter Can

Coverage

Expanproof* 600UV	: 0.60 Ltr. / m ² per coat
Expanprime* PU	: 5 m ² / Ltr.

Storage

Expanproof* 600UV and Expanprime* PU has a shelf life of 6 months if kept below 25°C in the original, unopened packs.

* Denotes the trademark registered

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