

HYCHEM Deckproof PU-2-SL

External Trafficable Waterproofing Membrane

Product Description

Deckproof PU-2-SL is an external trafficable waterproofing membrane, designed to be used in combination with other Hychem coatings to form a range of decorative finishes for pedestrian areas or hard-wearing surfaces for vehicle traffic. Deckproof PU-2-SL is certified to AS4654.1 as a Class III membrane for external above ground waterproofing over concrete and CFC substrates.

Typical Applications

- Carparks
- Ramps
- Balconies
- Stadiums
- Raised structures
- Wash bays

Approvals / Certifications

- Complies with AS4654.1:2012 for non-exposed external above ground waterproofing
- CRF Compliant

Features & Benefits

- High build non-UV membrane (Hychem recommended top coat required)
- Self-smoothing to provide a very smooth surface with uniform thickness
- Class III above ground membrane
- Very high Shore A hardness ~ 80
- Excellent mechanical properties
- Full range of slip-resistance and texture depth options to suit individual project requirements
- Variety of finishes available

Technical Data

Solids Content	95 %
Service Temperature	70 °C

Physical Properties

Specific Gravity	1.2
Tensile Strength	4.9 MPa @ 23 °C
Elongation	305 % @ 23 °C
Peel Adhesion Strength — Concrete	4.1 MPa
Peel Adhesion Strength — CFC	9.4 MPa
Water Vapour Transmission	10.8 g/m ² /24hrs
Water Absorption	1.6 %
Shore A Hardness	80 (+/- 10)

APPLICATION GUIDELINES

Surface Preparation

- The substrate must be clean, thoroughly dry and free of contamination including dirt and oil.
- The substrate must be free from all laitance, loose matter, oils, curing compounds, form release agents or any other contaminants that may inhibit adhesion.
- Concrete should be mechanically profiled to achieve minimum CSP2.
- CFC and other non-porous surfaces should be lightly profiled to remove all gloss.
- Priming: Hychem have a range of substrate specific primers. Please consult a Hychem technical representative for project specific advice.

Pre-conditioning product

It is important to note that even when the application environment is warm, products which have been stored in cold or cooler conditions should be pre-conditioned, ideally to 20-25°C.

Mixing

Mix both components Part A (18kg) with Part B (18kg), or smaller mixes at a ratio of 1:1 by weight (not volume). NB. Do not add solvent.

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Application

Deckproof PU-2-SL is typically applied in one coat by notch trowel and spike roller on horizontal surfaces or multiple coats on vertical surfaces using brush and roller. Roller application should be in a slow motion to avoid aeration. Application rates will vary depending on system requirements. Minimum application rate is 1.2kg/sqm for pedestrian areas over concrete, 1.5kg/sqm for pedestrian areas over CFC and minimum 2kg/sqm heavy vehicles over concrete. Hychem may modify these application rates for project specific requirements.

Application Information

Mix Ratio (Part A to Part B)	1 : 1 by weight
Application Temperature	10 °C to 35 °C
Relative Air Humidity	< 75 % RH
Pot Life / Working Time @ 23°C	45 minutes (small volume)
Recoat Window	6 – 24 hours
Packaging — 36kg kit	18kg Part A + 18kg Part B
Cure Time – Full Chemical	7 days

Environmental Conditions

Temperature and the surrounding atmospheric conditions will play a part in the curing process of all resin products. Under conditions of low temperatures and high humidity the final cured surface finish can be adversely affected, potentially resulting in poor gloss retention, discoloration over time, poor overcoat ability and inter-coat adhesion. Quite often these conditions will result in the formation of a white film over the surface, often evident after contact with water. If this occurs, the existing coating will need to be abraded to completely remove the affected surface to ensure the adhesion of subsequent applications. In some cases, partial or complete re-priming may be necessary. Attention also needs to be paid to the substrate temperature, which should be at least 3-5 °C above the dew point during the curing phase. Industry standards recommend the accurate recording of environmental conditions such as substrate and air temperatures, humidity levels and dew point readings during both the application and curing processes. Full material warranties cannot be provided unless all the relevant data has been recorded accurately. If in doubt consult the HYCHEM technical department for advice.

Safety Precautions

Wear appropriate personal protection equipment. Gloves, eye protection, mask and overalls should be used during mixing and application.

Shelf Life

Minimum 12 months from date of manufacture when stored under shelter at 25°C in the original un-opened container.

Storage Conditions

The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 5°C and 30°C.

Topcoats

A range of decorative effects or hard wearing solid colour finishes are available. Please consult Hychem for a project specific recommendation.

Warranties and Disclaimers

HYCHEM warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. HYCHEM has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of the application tools, including trowelling, spray equipment etc. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by HYCHEM.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

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Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Legal Notes

The information, and in particular the recommendations relating to the application and end-use of HYPHEM products, are given in good faith based on HYPHEM's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with HYPHEM's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HYPHEM reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.