HYCHEM

HYCHEM Deckproof PU-1-SL

Single component low viscosity self-levelling polyurethane membrane

Product Description

Deckproof PU-1 SL is a single component low viscosity self-levelling polyurethane membrane that cures to form a tough and permanently flexible waterproof coating.

Typical Applications

- Roof Decks, podiums & balconies.
- Waterproofing external terraces, general roof areas and most internal and external deck areas.
- landscaped podium areas, internal wet area floors and walls, laundries, foyers, shower recess trays, prior to the application of a variety of surface toppings and finishes such as cementitious compounds, tiles, pavers and suitable textured finishes.
- Planter box, window and door reveal, internal and external hobs, plinths, general tanking and below grade waterproofing, OSD/Retention tanks (non-portable water).

Features & Benefits

- One component, ready to use.
- Labour saving. Can be applied in a single application.
- High permanent flexibility.
- Seamless, impervious membrane.
- Excellent chemical resistance.
- Excellent adhesion to a wide range of substrates.
- Fast cure, allowing early access for follow up trades. No tar or bitumen modification.
- No bleed through.
- Non-Flammable.
- Very Low VOC.

Technical Data

Appearance	coloured ciscous liquid
Viscosity	3,000 ± 1,000 cps/25ºC
Density	1.40 approx.
Solids Content	93% ± 2

Physical Properties

Hardness (Shore A)	70 ± 10
Elongation (%)	> 400 %
Tensile Strength	3.43MPa
Tear Strength	1.96MPa

APPLICATION GUIDELINES

Surface preparation

Ensure all surfaces are structurally sound to manufacturer's written directions. Surface must be free of dirt, dust, loose matter, oils, contaminates, curing compounds, chalky or flaking concrete, dusting, scaling, and spalling etc. Grind or high-pressure water blast and or make substrate good to a smooth monolithic surface to accept priming and membrane application. Concrete must be a minimum strength of 25MPa and have cured a minimum of 28 days. All surfaces must be dry. Fill all holes, cracks, divots, voids and any imperfections with a proprietary cementitious External leveller free of gypsum to accept primer and membrane. Install leak control flanges around all pipe penetrations and drainage outlets in accordance with AS3740 & AS4654.

Priming

Prime surfaces with Deckproof primer applied at a rate of 6-10sqm/litre dependent upon surface porosity and substrate condition. Damp areas and areas subject to rising damp use Deckproof WBE (water-based epoxy primer). Deckproof Primer & Deckproof WBE must be over-coated with Deckproof PU-1-SL membrane within a period of a 24hr window. Deckproof WBE or Decproof Primer must be completely cured through or dry prior to application of the membrane.

Application

To the well-prepared surface, apply Deckproof PU-1-SL by notched squeegee, brush, roller or trowel in one or more coats at to achieve a minimum dry film thickness of 1.50mm. If this cannot be achieved in one or two coats an extra coat must be applied.

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Where necessary apply the third coat within a maximum time frame of 24 hours to ensure good inter-coat bond. Use Deckproof PU-1-SL membrane for upturns and downturns including all penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify where necessary. If the Deckproof PU-1-SL membrane becomes dirty or contaminated between coats, clean with Solvent X to ensure adequate adhesion. Allow minimum of 24 hours for Deckproof PU-1-SL & Deckproof PU-1-V to completely dry before accepting cementitious toppings, tiling, paving, landscaping covering, protecting with coreflute or backfilling.

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.

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 suitability of the product 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. EDITION: DPSL10426 low viscosity self-levelling polyurethane membrane Deckproof PU-1 SL

Application conditions

Do not apply above 35ºC or below 5ºC ambient temperature. Do not cover until fully dry. Protect membrane against damage before and during backfilling or covering. Consult a Hychem representative for any technical assistance relating to correct membrane and topcoat application.

Coverage

Generally, a 15 litre drum of Deckproof PU-1-SL will cover approx 10 - 12m² depending on the substrate and condition. Apply in one or two coats to achieve a minimum 1.50mm DFT. Ensure the dry film thickness (DFT) of the cured membrane is 1.50mm minimum.

Top Coating

For permanent UV resistance Deckproof PU-1-SL & Deckproof PU-1-V requires top coating with Deckproof PU-2-TC-1 Topcoat to ensure optimum performance and durability in exposed situations. Use topcoat coating as follows: Deckproof PU-2-TC-1 Topcoat for light foot and light maintenance trafficable situations. Over-coating should take place at the earliest opportunity once the membrane is fully cured to accept light foot traffic but Topcoat must be applied within a 24-hour window after installation of membrane. Should this not be possible it will be necessary to Solvent wipe membrane surface with Solvent X. Request technical support where necessary. For slip resistance particularly in wet conditions it is recommended to add Non-Slip Grit to the Topcoat along with an appropriate grit in the wear coat membrane e.g. washed clean 18/40 quartz/sand in the wear layer third coat membrane 500 microns. Consult with an independent slip Consultant to conduct Wet Pendulum testing for P & R Slip rating requirements and values. NOTE: Where Slip Rating is required this should be tested on-site by a suitable qualified third-party independent testing authority (Consultant). It is the responsibility of the contractors, builder, engineer or asset owner to achieve the correct slip resistance as per AS 4586 - 2013 and the National Construction Code (NCC).

Packaging

Deckproof PU-1 SL is supplied in 15 litre metal pails. EDITION: DPSL10426 low viscosity self-levelling polyurethane membrane Deckproof PU-1 SL SMEATON GRANGE NSW 2567 PH: 1300 HYCHEM hychem.com.au Page 3 | 3

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.

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Safety Precautions

Keep away from heat and flame. Use only with adequate ventilation. Avoid contact with the eyes or skin, especially open breaks in the skin. In the event of skin contact, remove excess product and wash with warm soapy water. Refer to MSDS for important warnings and product information.

Shelf Life

Deckproof PU-1 SL can be stored on average for 6 - 8 months at 23ºC in a controlled warehouse environment stored on a pallet rack and shrink wrapped. Avoid prolonged application or exposure to high humidity or temperature above 35ºC or temperatures below 5ºC. Avoid contamination with water or alcohols. This product is very sensitive to ambient temperature, humidity and moisture. Once drum is opened, product should be used immediately and NOT be resealed for future use.

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

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Customer Responsibility

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Legal Notes

The information, and in particular the recommendations relating to the application and end-use of HYCHEM products, are given in good faith based on HYCHEM's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with HYCHEM'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. HYCHEM 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.