

DUROPROOF NEP STD

SINGLE COMPONENT POLYURETHANE MEMBRANE



DESCRIPTION

DUROPROOF™ NEP STD is a high quality, superior performance single component liquid that cures to rapidly to form a polyurethane membrane that is tack-free, high modulus, tough, and flexible. For non exposed use only

FEATURES

- Excellent flexibility
- One component
- Good adhesion to a wide range of substrate
- Excellent chemical resistance
- Decrease in construction cost and time
- Single Coat horizontal application eliminates the risk of membrane delamination between layers.
- Tack-free cure & walkable overnight
- Excellent toughness
- Low odour, low VOC
- Complies with Green Star requirements
- Good abrasion and tear resistance
- Class III - elongation as per AS/NZ 4858 High build application is possible

USE AREAS

- Wet Areas
- Podiums
- Basements
- Walls and Floors
- Plant Rooms
- Planter Boxes
- Bathrooms
- Retaining Walls
- Balconies

TECHNICAL INFORMATION

| | |
|---------------------------------------|---|
| Composition | Single-Pack moisture curing Polyurethane |
| Specific Gravity (g/cm ³) | 1.30 - 1.35 |
| Service Temperature (°C) | - 20 to +80 |
| Curing time (hours) | Cured overnight |
| Shelf life (months) | 9 |
| Non volatiles (%) | 92 |
| VOC content (g/L) | 130 |
| Odour | Light almond smell |
| Tensile Strength (MPa) | 2.0 |
| Elongation (%) | 690 |
| Hardness (Shore A) | 45 |
| Angle Tear Strength (Kg/cm) | 11 |
| Re-coating interval (days) | Maximum 2 days after application |
| Recommended substrate temperature(°C) | +5 to +35 |
| Recommended substrate moisture (%) | Up to 5 |
| Recommended relative humidity (%) | Between 20 and 90 |
| Coverage Rate | Minimum 2 coats required, each at 1.0 Litre/m ² [1.0m ² /litre] |

Tiling: DO NOT direct stick tiles to membrane. Use unbonded screed method in accordance with AS3958.1. Allow 24 hours to cure prior to covering with surface finishes.





COVERAGE

| | |
|---|--|
| Internal Wet Area Walls 0.6mm Dry Film Thickness | 1.0 litres/m ² , 15m ² per pail |
|---|--|

| | |
|--|--|
| Internal Wet Area Floors 1.0mm Dry Film Thickness | 1.5 litres/m ² , 10m ² per pail |
|--|--|

| | |
|--|---|
| Bathrooms (internal walls & floor combined) Average | 1.13 litres/m ² , 13m ² per pail |
|--|---|

| | |
|--|--|
| External Floors, Walls, Basements, Roofs & Decks 1.0mm Dry Film Thickness | 1.5 litres/m ² , 10m ² per pail |
|--|--|

SUBSTRATE PREPARATION

Ensure sheet surfaces are firmly fixed to manufacturer's directions. Surface must be free of dirt, dust, loose particles, oily contaminants, old membranes & coatings, laitance, curing compounds and flaking concrete, etc. Grind, acid etch or sandblast concrete if necessary. Concrete must be a minimum strength of 20MPa and have cured a minimum of 28 days. Concrete should be fine broom finished. Surfaces must be dry with a moisture content below 5%. Fill all screw holes, cracks and voids with PU sealant. Install leak control flanges around all pipe penetrations. Build-up areas that are likely to cause ponding.

PRIMING

The preferred primer for general use is Duromix Hibuild WBE Primer. PU Primer is suitable where the condition of the concrete surface needs a primer with good penetration. Coat PU primer within 24 hrs. For wet areas, e.g. showers or where prolonged water contact is likely prime and completely seal the surface with Hibuild WBE beforehand. Refer to the Hibuild WBE technical data sheet for full instructions. PVC fittings should be etched primed (e.g. pink plumber's primer).

DETAILING

Apply a 10-15mm fillet of PU Sealant between all horizontal to vertical joints. Apply to all horizontal to vertical junctions, and around pipe/column penetrations. Around water and floor waste outlets, and over fine shrinkage cracks, apply additional DUOPROOF™ NEP STD 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 6mm minimum depth and fill with PU sealant before application of the membrane.

APPLICATION

To the prepared surface, apply DUOPROOF™ NEP STD by notched squeegee, spreader, brush or roller within a maximum of 48 hours between coats to achieve an optimum 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 24 hours to dry before covering.

PRECAUTIONS

Do not apply above 35°C or below 50°C ambient temperature, or if the Relative Humidity is greater than 90%. If applying more than one coat externally, ensure before starting the job, that rain is not expected between coats. Do not apply mortar beds until the membrane is fully dry. Protect membrane against damage before and during covering with mortar. Protect membrane against the action of roots.

WARNING AND HAZARDS

Keep away from heat and flame. Use only with adequate ventilation.

Refer to MSDS prior to use.

HANDING AND STORAGE

DUROPROOF™ NEP SL can be stored for 6 months at below 25°C. Avoid prolonged exposure to humidity or high temperature, contamination with water or alcohols. The product is very sensitive to air and moisture. Once opened, use completely as soon as possible and do not reseal for future use.

Durotech Industries Pty Ltd

Address 14 Essex Street, P.O Box 5092, Minto,
NSW 2566

Phone +61 2 9603 1177

Fax +61 2 9475 5059

Email sales@durotechindustries.com.au
www.durotechindustries.com.au

Web



DUROTECH INDUSTRIES

"This document, including any attached files, is strictly confidential and intended solely for the use of the individual or entity to which it is addressed. Durotech Industries prohibits the right to publish, copy, distribute or disclose any information contained in this document, or its attachments, by any party other than the intended recipient. If you have received this document in error please notify the sender and delete it from your system immediately. no employee or agent is authorised to conclude any binding agreement or make any representation on behalf of Durotech Industries. The views or opinions presented in this document are solely those of the author and do not necessarily represent those of Durotech Industries, except where the sender expressly, and with clear authority, states them to be the views of Durotech Industries. Durotech Industries accepts no liability for any loss or damage (direct or indirect or consequential) arising from the use of or in connection with this document and any attachments and suggests that the recipient check this document and any attached files for the presence of viruses."

