PRODUCT DATA SHEET

DUROPROOF NEP HV

HIGH SOLIDS, LIQUID APPLIED POLYURETHANE MEMBRANE

DUROTECH
Commercial Waterproofing & Sealants

DESCRIPTION

Duroproof NEP HV is a high-performance high Viscosity single component, moisture curing polyurethane membrane that forms a tough, flexible, seamless barrier. This high-performance polymer technology allows the professionals the ability to apply via roller, brush or squeegee applications on multiple application areas without any hassles to form a perfect high build finish.

FEATURES

- Single component, moisture curing polyurethane
- Class 3, Compliant to AS4858 & AS4654.1
- High Solids LOW VOC
- Excellent curing speed
- High Tensile Strength
- Anti-Root

SUITABLE SURFACE

- Concrete, cement and cement block work
- FC Sheeting
- Hebel
- Render
- Brick
- Plaster Board
- Masonry

COLOURS

Grey

PACKAGING

15 Litre

TECHNICAL INFORMATION

Membrane Classification	Class 3 – high extensibility
Elongation at break	>300% Class 3
Colour	Grey
Appearance	Thick paste
Cure System	Moisture cure
Volume Solids	94%
Full Cure	7 Days @ 25°C and 50% RH
Flammability	Non-flammable
Recoat time	24 hours @ 25°C and 50% RH
Minimum Dry Film Thickness	1500microns

USE AREAS

- External Wet Areas
- Internal wet area floors under or over screeds
- Balconies, roof decks and podiums
- Plantar Boxes
- Retaining Walls
- Green roofs and landscaped decks
- Lift Pit
- Exposed Rooftops with TTC Top Coat

SINCE 1977
Trusted • Tested • Approved

SPECIFICATION

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

SURFACE PREPARATION

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

JOINTS, GAPS AND CRACKS

Joints, gaps and cracks should be filled and sealed with Durotech Duroseal 40FC and allowed to cure. Recommendation: The movement of small cracks should not be underestimated and must be covered with a flexible polyurethane sealant and an additional coat of Duroproof NEP HV.

PRIMING

Durotech WBE HIBUILD epoxy primer may be used in areas where the moisture content of the surface is low, applied at no less than 1 Liter 4m².

If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or outgas, two coats of Durotech Duromix WBE HIBUILD epoxy primer should be applied.

Durotech Duroproof PU primer may be used on porous substrates such as concrete at the rate of 6-8m2 per litre.

Excessively porous, friable, and dusty surfaces may require an additional priming coat.

Metal surfaces must be clean and free of contaminants and then apply Durotech METAL Primer. If rusted, treat to remove rust, apply a rust converter, and then apply Durotech METAL Primer.

Allow primers to touch dry before applying the membrane and refer to the TDS of the relevant primer. PVC fittings should be etched primed with Durotech etch primer.

BOND BREAKING

Apply Durotech Duroseal 40FC to form smooth, 12mm angle fillets to all internal and external corners, penetration, joints. Allow to cure prior to application of Duroproof NEP.

APPLICATION

Duroproof NEP HV can be applied with a brush or a roller to the desired thickness.

Minimum application over 2 coats is required to achieve a dry film thickness (DFT) of 1500 microns

Recoating instruction
In normal conditions, Duroproof NEP HV can be re-coated with another layer of Duroproof NEP HV after one night and within 24 hours. In case of rain or if the recoating interval was exceeded, come back to the substrate by grinding.

COVERAGE

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

STORAGE

Keep in cool, dry place away from heat, flame or combustible material.

DRYING & CURING

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide. Curing is dependent upon temperature, humidity, type of substrate and application technique. Generally, NEP HV will be dry to touch within 10 to 12 hours with full cure within 24 hours.

SHELF LIFE

Shelf-life: 6 - 9 months in unopened container but best used within 6 months. As this is a polyurethane some skinning of the product may occur. This should be cut out and removed. Balance of the product will be suitable for use.

CLEAN UP

Avoid spills. They are difficult to clean particularly off porous surfaces. For wet spills use a cloth and Duroproof Solvent. Do not clean off carpets as it is better to allow product to cure and then shave the carpet. Equipment should be immediately cleaned with Duroproof Solvent.

SAFETY

NEP HV is solvent based. The use of solvent resistant gloves and goggles (against splashes) are recommended. If spraying, which is very rare, the use of self-contained breathing apparatus is recommended. If swallowed do not induce vomiting, give plenty of water to drink. Seek urgent medical advice. If in eyes, flush thoroughly with clean water, holding lid open to ensure any trapped product may be flushed away. If on skin, remove contaminated clothing and wash skin with soap and water. If inhaled, unlikely due to viscosity of the product, remove person to fresh air and apply artificial respiration if required and seek urgent medical attention. Product is flammable when wet. Keep away from all sources of ignition. Ensure adequate ventilation. Vapours may collect in low lying areas. For full safety data refer to the products Material Safety Data Sheet . Observe precautions per label.

CURE

Durotech Duroproof NEP HV will reach full cure after 7 days.

PRECAUTION

- Do not apply if temperature is above 35°C or less than 5°C.
- Do not apply if rain is imminent.
- Do not use in a chlorinated environment.
- Ensure sheet flooring is appropriately fixed as per manufacturers' instructions.
- Duroproof NEP HV is not UV stable and should therefore not be left exposed for prolonged periods. When screeding over Duroproof NEP HV, screeds must have a minimum thickness of 40mm and self-supporting by reinforcing with wire mesh. If a specialist screed is to be used, please consult with manufacturer if the screed can be used in a self-supporting application.
- Do not direct stick tiles onto Duroproof NEP HV as this could lead to the debonding of tiles.

LIMITATIONS

Direct bonding of ceramic tiles or other hard coverings is not recommended. Topping screeds should be self supporting (i.e. reinforced), should be at least 40mm thick and applied over a suitable slip sheet. Duroproof NEP HV must be applied to completely dry surfaces. Duroproof NEP HV should not be applied without the necessary protective clothing – refer safety data. This product is very sensitive to air, therefore containers cannot be resealed for future use once they have been opened.

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