PRODUCT DATA SHEET

KODEX NEP

HIGH VISCOSITY, LIQUID APPLIED, POLYURETHANE MEMBRANE FOR NON-EXPOSED AREAS

Sealants & Waterproofing

DESCRIPTION

Kodex NEP is a tough, durable, elastomeric, single pack, liquid applied, moisture curing, cross-linking, polyurethane waterproofing membrane - usually grey in colour.

Kodex NEP forms a tough, flexible, seamless waterproofing membrane designed for both vertical and horizontal surfaces that bonds well to most suitably primed building substrates.

Kodex NEP is formulated as an anti-sag membrane, that although easy to apply by roller or brush, it can be applied on to vertical surfaces without slumping to achieve the require film thicknesses.

FEATURES

- Single pack - no mixing.
- Fast curing (usually within 24 hour)
- Anti-sag (maintains required thickness without slumping on vertical surfaces)
- Will not bleed or stain grout or tiles.
- Good chemical resistance.
- High strength and puncture resistant.
- Provides seamless membrane (no joints or laps)
- Easily repaired and maintained.
- AS 4654.1 Compliant
- AS 4858 Compliant
- Formulated to provide long term protection.
- Tar free.
- Easy to apply.

Kodex NEP meet AS4654.2 (Exposed Membrane) when exposed areas are top coated with Kodex PU Top Coat.

PACKAGING

18 Kg

PHYSICAL PROPERTIES

Membrane Classification	Class 3 – high extensibility
AS/NZ4858	Complies
Elongation at break	>300% Class 3
Colour	Grey
Appearance	Thick paste
Cure System	Moisture cure
Volume Solids	90%
Full Cure	7 Days @ 25°C and 50% RH
Flammability	Non-flammable
Recoat time	24 hours @ 25°C and 50% RH
Minimum Wet Film Thickness	660 microns per coat Minimum 2 coats
Minimum Dry Film Thickness	1.2mm after 2 coats

NOTE: Drying times may vary with temperature change

USE AREAS

- Tiled or covered areas
- Shower recess & wet areas (floors and upturns)
- Decks, balconies, terraces & podiums
- Structural slabs

COLOURS

GREY

SUITABLE SURFACE

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

Surface should be sound, stable, dry, clean and free of dirt, dust and contaminants and suitably primed.

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 Kodex 25FC 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 Kodex NEP.

PRIMING

Kodex E50 epoxy primer may be used in areas where the moisture content of the surface is low, applied at no less than 1 Liter 4m^2.

If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or out gas, two coats of Kodex E50 epoxy primer should be applied.

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

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

BOND BREAKING

Apply Kodex 25FC to form smooth,12mm angle fillets to all internal corners, penetration sand joints. Allow to cure prior to application of Kodex NEP. Alternatively, install Kodex Joint Band to wall/ floor joints and corners, where greater movement is anticipated, or a premium solution is required.

REINFORCED SYSTEM

In areas such as corners and over joins and cracks the membrane should be used in conjunction with a reinforcing fabric (Kodex fiberglass matting). This application consists of applying a base coat in to which the reinforcing fabric is laid followed by the application of a saturating coat ensuring that the product is worked well in to the fabric and that no wrinkles or bubbles are present and that fabric is entirely saturated and covered with product. Allow to cure. Apply one or two further coats of products.

APPLICATION

Application

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

1.8 kg/ m^2 application over 2 coats is required to achieve a dry film thickness (DFT) of 1.2mm

Application temperature of Kodex NEP is >5°C to 35°C

Recoating instructions

In normal conditions, Kodex NEP can be re-coated with another layer of Kodex NEP after one night and within 24 hours. In case of rain or if the re-coating 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.

In order to achieve 1.2 mm Dry film thickness (DFT) an application of 1.8 kg/m^2 is required.

STORAGE

Keep in cool, dry place away from heat, flame or combustible material. Product contains flammable solvents. Class 3 Dangerous Goods must be declared prior to transportation. Available in 15 Lt pails.

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, PUM Pro will be dry to touch within 10 to 12 hours with full cure within 24 hours.

SHELF LIFE

Self-life: 6 - 12 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 Kodex 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 Kodex Solvent.

SAFETY

PUM Pro 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 as per label.

CURE

Kodex NEP 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.
- Kodex NEP is not UV stable and should therefore not be left exposed.
- When screeding over Kodex NEP, screeds must have a minimum thickness of 40mm and self-supporting by reinforcing with wire mesh. A slip sheet comprising two layers of 200micron builders' plastic, crossed laid is to be applied over the Kodex NEP prior to the installation of the screed. 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 Kodex NEP as this could lead to the de bonding 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. Kodex NEP must be applied to completely dry surfaces. Kodex NEP 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. Kodex NEP is not UV stable and not resistant to foot traffic.