

SUFFIX POLYUREA NEPTUNE

Polyurea Based, Two Component, Cold Applied
Liquid Membrane Waterproofing Material

ISOLATIONS

Description of Product

SUFFIX POLYUREA NEPTUNE is a two-component, easy and cold applied polyurea system. SUFFIX POLYUREA NEPTUNE is an elastic waterproofing product. Adheres to concrete, metal and mineral surfaces. It dries quickly, service time is short. It has crack bridging feature. It does not create air bubbles on properly prepared and primed floors.

Areas of Use

Concrete structures, roofs, balconies, terraces, secondary containment waterproofing.

Advantages

Crack bridging up to 2 mm. It is flexible. It is suitable for application with a thickness of 2 mm in a single layer. It has a monolithic structure and creates a surface that does not require joints. It weighs fast.

Physical Properties

Quality (23°C, 50% RH)	Value	Standard & Method
Appearance	A Component: Liquid, Gray B Component: Liquid, Transparent	-
Viscosity	A Component: 1500 ± 500 B Component: 20 ± 10	EN ISO 2555
Density (gr/cm ³)	A Component: 1,40 ± 0,05 B Component: 0,98 ± 0,05 A+B Mixture: 1,37 ± 0,05	EN ISO 2811-1

Mechanical Properties

Quality (23°C, 50% RH, 7 Days)	Value	Standard & Method
Elongation at Break (%)	> 500	EN ISO 527 ASTM D 412
Breaking Strength	> 10	EN ISO 527 ASTM D 412
Tensile Strength (N/mm ²)	> 4,5	EN ISO 527 ASTM D 412
Adhesion Strength (N/mm ²)	> 1	EN 1542 ASTM D 4541
Surface Hardness (Shore A)	> 68	EN ISO 868 ASTM D 2240

Technical Properties After Application and Cure

Quality (23°C, 50% RH)	Value	Standard & Method
Application Thickness (mm)	2	-
Pot Life (minutes)	25 ± 2	A+B Mixture 100 gr
Touch Dry (hours)	4 - 6	-50% RH at 23°C
Full Curing (days)	7	

Application Information - Surface Preparation

The surfaces to be applied must be dry and clean. Concrete and mold residues mechanically; Oil, grease, fuel and paraffin waste should be cleaned using chemical solvents. There should be no roughness, pits or cracks on the surfaces to be applied. Such damaged and unstable surfaces must be repaired and corrected using appropriate products. If necessary, the floor should be overhauled with grinding machines or diamond-tipped machines. After these procedures, the surface should be cleaned of dust with industrial vacuum devices. The prepared surface should be primed with a suitable primer. On very absorbent concrete surfaces, 2 coats of primer may be required. The upper surface adhesion of the subfloor must meet an average of 1.5 N/mm² and the compressive strength must meet a minimum of 25 N/mm². During application, care should be taken to ensure that the ground temperature is above minimum +10°C. Application thickness should be minimum 1.5 mm. It is important to check that the material is applied in equal amounts throughout the entire applied area and that the ideal application is ensured when measuring the thickness at certain intervals. Care should be taken to protect the applied surfaces (such as water, dew, dust) for at least 24 hours.

Selection of Primer

Highly absorbent surfaces such as concrete, cement screed or wood; Primer application can be started after being previously saturated with SUFFIX PRIMER PUR HR.

Application

SUFFIX POLYUREA NEPTUNE is also applied to the roll with a 3 mm steel trowel.

Packing

A set of 10.6 kg SUFFIX POLYUREA NEPTUNE;
Component A: 10 kg
Component B: 0.6 kg

Consumption

2 - 2,2 kg/m²

Storing and Shelf Life

SUFFIX POLYUREA NEPTUNE product can be stored for 9 months from the date of production at + 15°C and 35°C, if the containers are unopened and protected from direct sunlight and risk of freezing.

Warnings

No other ingredients should be added to SUFFIX POLYUREA NEPTUNE product. Opened packages should be finished completely and not left unfinished. Do not thin with any thinner.

Safety Precautions

Component A of SUFFIX POLYUREA NEPTUNE contains isocyanate. You should not smoke during application and work in well-ventilated environments, away from naked flames. It should not be forgotten that solvents are heavier than air and therefore will circulate on the ground. During application, work clothes, protective gloves, glasses and masks that comply with occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not be contacted with the skin or eyes. In case of contact, it should be washed with plenty of water and soap. If swallowed, consult a doctor immediately. For detailed information, please refer to the Safety Data Sheet (MSDS) or contact our technical units. Keep out of reach of children.

None of our instructions and technical specifications written herein are binding in general and EXCLUSIVELY in accordance with the protective rights of third parties and do not exempt you from the obligation to carry out the necessary examination to determine the suitability of our products. Our company is not responsible for any damages that may occur as a result of natural damage or due to use and/or product reliability or information and instructions, for whatever reason and to whatever extent.

