

GEOFORCE NEP

NON EXPOSED TYPE

Pure Polyurethane Waterproofing

Geoforce NEP is an excellent performance liquid applied single component pure Polyurethane waterproofing membrane design to use as a conceal waterproofing system.

High solid content of more than 95% pure polyurethane produce an excellent quality and performance to meet all waterproofing application on concrete steel and other substrates for internal and external application.

USES

- Concrete roof (new and old)
- terraces, planter boxes, balconies, kitchen
- parking
- swimming pool
- below grade floors and tanking system
- podium
- sauna, toilet and bath
- retaining wall

FEATURES AND BENEFITS

- High flexible to withstand movement and can bridge hairline crack
- High tensile and tear strength for tough and flexible finish for human traffic
- Stable quality
- Can be applied to complex or vertical part
- Seamless
- Chemical resistant : prevent bacterial growth
- Low VOC content
- Applied direct from pail with roller, brush

APPLICATION

1. All substrates must be structurally sound, clean, dry and free of oil, grease or other contaminants and loose particles.
2. Concrete substrate should have a light steel trowel finish. Porous substrate should be seal with GEOPRIME using brush, roller or airless pray machine at the rate of 0.2-0.3kg/m². allow to cure for 2-3 hours depending on weather conditions. Penetrations, flash piping, conduit and other projection through the structural slab, upstand wall and dry wall such as vents, pipe sleeves should be in place and properly fixed
3. Apply 1 to 2 coats of GEOFORCE NEP by roller, trowel, squeegee, brush or spray. Allow the first coat to dry for 2 hours depending on weather conditions before application of the second coat.
4. Allow it to cure in 12-24 hours. A protection layer must be used to expose to UV light

COVERAGE

Approximate 1.5kg/sqm for 2 coats application to achieve approximately 1.1mm dry film thickness

PACKAGING

22kg. Round metal pail, 18kg square tin can

CLEANING

Tools can be clean with solvent.

HEALTH AND SAFETY

GEOFORCE NEP contains solvent and is harmful to eyes and skin. Use protective equipment and adequate ventilation during application



TEST CODE	DETAILS	VALUE
ASTM D412	Tensile Strength	4.0 N/mm ²
ASTM D412	Elongation at break	> 700%
ASTM D5469	Adhesion to Concrete	> 1.5 N/mm ²
ASTM D2240	Hardness (Shore A)	> 57
ASTM C836	Solid Content	> 95%
ASTM C836	Crack Bridging Test	pass (-250°C, 6.0mm @ 25 cycles)
ASTM D5052	Water Permeability	below 5.0g/sqm @ 42 hours
ASTM C836/ C836M-12	Weight loss ((70±1)°C, 72 h)	6%
ASTM C836/ C836M-12	Extensibility after Heat Aging ((70±1)	No cracking

PROPERTIES	VALUE
COMPOSITION	PURE POLYURETHANE
DENSITY	1.2-1.3KG/M ³
COLOR	BLACK/VARIOUS LIQUID
TEAR STRENGTH	>12 N/mm ²
Touch Dry (25°C @ 65% R.H)	2-3 HOURS
CURE TIME	12-24 hours
VOC CONTENT	>50 g/L
USE	Non-Exposure (non tar Type)

