

TORCH-APPLIED APP PLASTOMERIC BITUMEN MEMBRANE WITH STABILIZED NON-WOVEN POLYESTER FELT REINFORCEMENT

Description

NIROSEAL APP 3T & 4T are plastomeric modified bitumen waterproofing torch-applied membrane, with APP polymers which provides high softening point and excellent flexibility, along with great resistance against atmospheric agents and long-lasting durability at environment temperature down to -10°C.

These are reinforced with a core of non-woven polyester fabric, weighing 180g/m², rot-proof and is malleable. Stabilized reinforcement grants both high mechanical characteristics and avoids phenomenon of lap's pull back.

Uses

To provide waterproofing and damp-proof membranes for:

- Concrete roof and floor slabs
- Basement tanking
- Car park deck slabs
- Concrete retaining structures
- Tunnels and subways

Advantages

- High softening point and excellent behavior under high temperatures, making it ideal for application during the summer
- Great flexibility
- Particularly suitable for roofs with slow deformation
- Excellent durability and ageing
- Resistance to extremely high and low temperatures
- Maximum puncturing resistance (static and dynamic)
- High tear resistance
- Good dimensional stability

Characteristics

# Membrane thickness (+/- 5%) (ASTM D 751) :	
	: NIROSEAL APP 3T - 3mm
	: NIROSEAL APP 4T - 4mm
# Nominal weight	: 3mm - 3.5kg/m ²
	4mm - 4.5kg/m ²
# Reinforcement base	: 180g/m ²
# Softening point	
(ASTM D36)	: 155°C
# Penetration (ASTM D5)	: 18 ± 5 dmm
# Flexibility at low	
temperature (Din 52123) :	0-4°C
# Tensile strength	
Longitudinal (UEAtc)	: 750 N/5cm
Transverse (UEAtc)	: 650 N/5cm
# Elongation of membrane	
Longitudinal (UEAtc) :	60%

Transverse (UEAtc) : 65%

Tear resistance

Longitudinal (ASTM D4073) : 400 N

Transverse (ASTM D4073) : 350 N

Lap joint strength

Longitudinal (UEAtc) : 700 N/5cm

Transverse (CGSB37-GP56m) : 600 N/5cm

Load Strain

Longitudinal (CGSB-37-GP56M): 32,000

Transverse : 28,000

Puncture Resistance

Static (UEAtc 5.1.9) : L3

Dynamic (UEAtc 5.1.4) : I3

Water absorption (ASTM D5147)

: <0.15%

Water vapour transmission (ASTM E96)

: <0.50g/m²/24h

Resistance to ageing due to UV radiation (ASTM G53)

: No signs of deterioration after the test

Pliability @ 50°C for 3 hrs

: No sign of cracking

Heat Resistance 110°C., 2 Hrs (ASTM D 5147)

: No flow

Standards

EN13707; EN13969 - 0120 - GB 06/69407;

EN13970 - 1211 - 51-08-0011/003-2ec;

EN13970 - 1211-Ta51267/06ea

Application guidelines

Substrate must adequately cure, clean and free of losing particles or debris; surface must be primed with NIROSEAL APP Primer.

Membrane shall be either full bonded or partially bonded onto the substrate when installed as underlayment; when installed as single-layer system shall be full bonded onto the substrate and it is advisable increase head overlapping area up until 15-20 cm.

Head laps must follow water path (avoiding contrary gaps, possible source of water concentration).

It shall be applied from professional installers. Please contact Nirman Chemicals Limited for specific application assistance.

Application tools and equipment

The tools and equipment required to apply NIROSEAL APP 3T & 4T membrane include a propane gas torch with related gas cylinder, a knife for cutting the membrane to size and a trowel with a rounded tip. Protective gloves and goggles are necessary when using the gas torch.

Packaging and Roll sizes

NIROSEAL APP 3T & 4T are supplied in rolls as follows:

Thickness	3 mm & 4mm
Width	1m
Length	10m

NIROSEAL APP Primer : 20 and 200 litre drums

Coverage

NIROSEAL APP Primer : 0.2 - 0.8 lt/m²

Technical support

NIRMAN CHEMICALS provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice consult our local NIRMAN CHEMICALS representative.

Safety precautions

NIROSEAL APP Primer should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation. Suitable protective gloves and goggles should be worn.

Some people are sensitive to resins and solvents. Resin Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting

Note

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact our local NIRMAN CHEMICALS representative.

Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.



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