

# APCON SHIELD™



## Cold applied, Self Adhesive Waterproofing Membrane for Sub-structure Protection - 250 GEO

An ISO 9001:2015 Certified Company

### DESCRIPTION

*Apcon Shield - 250 GEO is a modified self-adhesive waterproofing membrane mechanically protected by a 250 GSM tough polyester geotextile, under faced with a siliconised release film and selvedged provided on one side of the membrane to give bitumen to bitumen contact on the overlap, restricting water penetration through the overlaps. It provides high puncture, tear and impact resistance.*

### FEATURES :

- ⌘ Single product offering waterproofing and protection against damage and puncture.
- ⌘ Topped with very high puncture resistant 250 GSM non woven polyester geo textile.
- ⌘ No need of additional protective layer during structural concreting and back filling.
- ⌘ Excellent adhesion to the surface.
- ⌘ Excellent puncture resistance and UV resistance.
- ⌘ Enhanced chemical resistance.
- ⌘ Completely non bio-degradable.
- ⌘ Flat adhering surface

### USES

*Apcon Shield - 250 GEO membrane is designed to be used as protection of foundation walls and below grade structures. The specially formulated bituminous compound is unaffected by corrosive salts and dilute acids found in ground water.*

### APPLICATION

#### **Surface Preparation :**

*A smooth regular and dry surface is a necessity for good application, The substrate should be completely free of protrusions or cavities. Any concrete or steel surface to be damp proofed by Apcon Shield - 250 GEO should be primed with Apcon primer @ 4-6m<sup>2</sup>/ltr. The primer should be touch dry before application.*

*Applications involving Apcon Shield - 250 GEO being used as a protective layer on Apcon Shield - 250 GEO or Bitumen range of pipe wrapping tapes. The settled dust on the base layer of membrane is to be removed. Presence of solvents, water or dirt on the surface would affect the efficiency of the system.*

### METHOD OF APPLICATION

1. *The application temperatures should be between 4°C to 45°C. The installation procedures are to be as follows:*
2. *Unroll only the required length and cut the piece to the desired shape.*
3. *Place the membrane piece on the area to be covered and check whether the piece match with the profile of marked substrate.*
4. *Peel off the release film and carefully place the membrane with 50 mm overlap on the selvedges alone.*
5. *Smoothen out the protection membrane from the center to sides to sort out any entrapped air.*

## **HANDLING**

*Apcon Shield - 250 GEO is supplied in roll of 1 mtr width and 10 mtrs length. The rolls are packed individually in corrugated boxes to avoid any damage during transit or at site. The membranes can be unloaded by hand or other convenient means, but making sure that they are kept away from protruding edges to avoid punctures.*

## **STORAGE**

*Apcon Shield - 250 GEO rolls must be kept upright*

*at all times. Storage of Apcon Seal rolls should be in a well-ventilated and covered storage area. Membranes should be stored away from a source of direct heat. Apcon Shield - 250 GEO has a shelf life of 12 months from the date of production, if stored in a cool, dry store in original unopened packing.*

## **HEALTH & SAFETY**

*As with all bitumen products, caution should be always be exercised. Protective clothing such as gloves and goggles should be used.*

## **TECHNICAL DATA**

<b>Properties</b>	<b>Values</b>	<b>Test Standards</b>
Nominal Thickness (mm)		2.3 UEA <sub>tc</sub> , ASTM D 751
Surfacing Core	250 GSM spun bond polyester	UEA <sub>tc</sub>
Puncture Resistance	> 1000 N	ASTM D 154
Elongation Compound	> 1000 %	ASTM D 882 / ASTM D 638
Resistance to Hydrostatic Pressure	74m	DIN 1048
Tensile Strength	Longitudinal	900 N / 5 cm
	Transversal	650 N / 5 cm
Elongation	Longitudinal	35%
	Transversal	40%
Tear Strength	Longitudinal	500 N
	Transversal	450 N
Adhesion Strength	2 N/mm	ASTM D 1000
Softening Point	103°C	ASTM D 36

This data is subject to change / modify time to time due to continuous improvement of the products. Test results are given as per the tests conducted in the lab. The test results may vary due to climatic conditions.

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