

# Torchseal SX

High performance – SBS modified waterproofing membrane polyester reinforced



## Description

Torchseal SX is a factory preformed SBS modified bituminous waterproofing and roofing membrane polyester reinforced.

Manufactured in 4 mm & 4 mm slated membranes.

## Applications

Torchseal SX due to its high malleability, it is specially designed for effective use in the waterproofing of below grade structures, foundations, basements, plazas, as well as in new roofing, re-roofing, maintenance roofing, flashing, and any where a high performance waterproof membrane is required in commercial, industrial, residential, institutional and other civil engineering applications.

## Advantages

Torchseal SX is factory manufactured five layer membrane namely: polyethylene film or sand finished or slated finished facing, SBS modified bitumen compound, non woven polyester reinforcement weighing 180 or 200 grms/m<sup>2</sup>, SBS modified bitumen compound and flammable polyethylene base film. This balanced combination of elastomeric compound and polyester reinforcement provides Torchseal SX membranes with excellent mechanical properties.

The polyester reinforcement provides the membrane with excellent dimensional stability and puncture resistance. The specially formulated mixture of SBS modified bitumen gives the membrane:

- ▲ Excellent resistance to atmospheric agents and chemical attacks.
- ▲ High malleability to accommodate difficult applications as well as structural movements.
- ▲ High flexibility for applications at below zero temperatures with no physical strains.

The elastomeric compound and the properties of the reinforcement are carefully and correctly balanced to obtain excellent tensile strength, tear resistance, elongation and puncture resistance.

## Method of Use

Torchseal SX is applied by propane gas torch to a prepared substrate.

The following are general guidelines for installation:

### Priming

Use D-41 PRIMER on concrete decks and up stands.

### Alignment

Unroll Torchseal SX rolls and check for alignment before bonding. Overlaps should be minimum 100 mm along the sides and not less than 150 mm at roll ends. Re-roll Torchseal SX and prepare for bonding.

### Bonding

Use propane gas torch to heat substrate and underside of Torchseal SX membrane until the clear polyethylene film is burned away and the polymeric compound begins to melt (its color turns from shiny to matt). Press membrane firmly against substrate.

### Sealing

Excess compound should be smoothed and pressed into the seam (using hot trowel).

### Flashing

Flash all terminations, up stands and projections through the slab.

### Packaging

Torchseal SX is available in 1 x 10 meter roll size.

Torchseal SX 4 mm plain 23 Rolls/ pallet.  
Torchseal SX 4 mm slated 23 Rolls/ pallet.

### Availability

Torchseal SX is available through authorized dealers in the area.

# Torchseal SX



## Technical Properties:

Membrane thickness: ASTM D751	4 mm, (±5%)
Reinforcement base of the membrane:	180 or 200 gr/ m <sup>2</sup> , non- woven polyester
Softening point (Ring & Ball test) of coating mixture: ASTM D36	≥ 135°C
Penetration (DOW) of coating mixture: ASTM D5	20 - 35 dmm
Creeping of the membrane at 60° slope surface at a test temperature of 100°C or 212°F during 120 hours: UEAtc	No creeping
Impermeability of the membrane to water: UEAtc	Absolutely impermeable
Water absorption: ASTM D5147	< 0.15%
Water vapour permeability: ASTM E96	Absolutely impermeable
Resistance to thermal ageing: UEAtc	No signs of deterioration after the test
Resistance to ageing due to UV-radiation: ASTM G53	No signs of deterioration after 2000 hrs.
Hydrostatic pressure resistance: DIN 1048	> 110 PSI
Tensile strength: UEAtc, ASTM D146, BS2782	
Longitudinal	900 N/ 5 cm
Transversal	700 N/ 5 cm

## Technical Properties:

Elongation: UEAtc, ASTM D146, BS2782	
Longitudinal	50%
Transversal	55%
Load strain product: CGSB-37-GP-56M	
Longitudinal	45,000
Transversal	38,500
Tear resistance: ASTM D5147	
Longitudinal	625 N
Transversal	425 N
Puncture resistance: UEAtc	L4 (25 kg. 10 mm ball - no effect)
Static	I 4 (9 joules impact energy 5 mm ball - no effect)
Dynamic	
Lap joint strength: ASTM D5147	
Longitudinal	900 N/ 5 cm
Transversal	700 N/ 5 cm
Flexibility at low temperature: UEAtc, ASTM D146, CGSB-37-GP-56M	-20°C, no cracking

*Note: The technical data shown here are the average values of tests, measurements and trials, carried out on the Torchseal SX Waterproofing membranes. The data may be changed, improved modified by DCP without prior notice.*

## Storage

All roofing should be inspected periodically. Check the condition of the protective elements. Accidentally damaged or worn areas can be patched by using the same material.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

Installation works of torch-applied bituminous membranes should be executed in well ventilated areas. Use gloves and keep flames directed away from body and flammable materials.

For further information refer to the Material Safety Data sheet.

### More from Don Construction Products

A wide range of construction chemicals products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Grouts and chemical fixings.
- ▲ Concrete repairs.
- ▲ Industrial floorings.
- ▲ Structural protection.
- ▲ Waterproofing.


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**Note:**

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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