



COSTAR PRO SHIELD 100

Bituminous waterproofing membrane

PRODUCT DESCRIPTION

The Costar Pro Shield 100 represents a waterproofing membrane enhanced with polymers, crafted from a blend of bitumen and specific polymers to achieve effective waterproofing. This bitumen compound additionally showcases notable resistance to both heat and UV radiation.

FEATURES

- Excellent resistance to water
- Good flexibility.
- Can accommodate structural movements
- Resistant to water borne chemicals

APPLICATION AREAS

Costar Pro Shield 100 is used as waterproofing membrane on roofs, patios, terraces, slabs, bridges, basements, retaining walls etc.

SURFACE PREPARATION

Adequate and detailed surface preparation is essential for durability of product after installation. Before application surface must be clean, dry and without contamination. The compressive strength of substrate must be at least 25MPa and cohesive bond strength must not be less than 1.5MPa.

APPLICATION

Start the installation of all membrane plies from the low point or drains, so the flow of water is over or parallel to the plies, but never against the laps.

All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps. Begin membrane application by unrolling membrane and aligning the side laps. Re-roll the roll halfway and stand on the unrolled portion to prevent shifting. Side overlaps should be a minimum of 100 mm and the end overlaps 150mm.

Costar Pro Shield 100 is installed by using a cylinder fed propane gas torch. Use of hand-held roofing torch is recommended as it affords a good control. If multiple burner torching are utilized, care must be taken to ensure the application of uniform heat and avoid overheating the membrane. Begin torching the embossed polyethylene side of the rolled portion of the membrane. Proper torching procedure involves passing the torch flame in an "L" pattern applying about 75 percent of the heat across the coiled portion of the roll and 25 percent across the substrate, including the lap area of the previously installed membrane.

As the membrane is heated the embossing starts to melt away exposing a shiny bitumen surface. Roll forward the membrane and press firmly with the boot or roller against the substrate to bond well. The propane flame should be moved from side to side and up the lap edge while the membrane is slowly unrolled and adhered to the underlying surface. Subsequent shift of the roll shall be avoided after heating has begun.

When complete, the remaining un-torched membrane shall be re-rolled and installed in the same manner. When one end is complete, re-roll the opposite end not yet torched, and install in the same manner. As subsequent rolls are installed, heat is applied to both the roll and the exposed laps of the membrane being overlapped onto. Be sure to heat the entire roll evenly, not just the lap areas, with extra concentration at the laps.

Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when a uniform flow of melted bitumen compound flows evenly like a bead that oozes from the applied membrane's edges. Excess compound should be smoothed and pressed into the seam using a heated trowel. Any unbonded areas must be lifted and re-torched. Do not attempt to reseal by torching the top surface of the membrane.

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TECHNICAL PROPERTIES

Resistance to static puncture	≥500 N, ≥20 mm	
Shelf life	12 months minimum from date of production if stored properly in original, unopened and undamaged sealed packaging.	
Appearance	Black Rolled Sheet	
Length	10 m ± 1 %	
Width 1 m ± 1 %	1 m ± 1 %	
Effective thickness	3 mm & 4 mm (±5 %)	(EN 1849-1)
Mass per unit area 3	.85 kg/m ² (±10 %)	(EN 1849-1)

SHELF LIFE

Protect Costar Pro Shield 100 from all sources of heat. Do not stack pallets on top of each other. The shelf life is 12 months if stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.

PACKAGING

1m width x 10m length per roll

LIMITATIONS

- It is advisable to use hand gloves and goggles during application. Avoid application and damp or moist substrate.
- It should be stored at room temperature.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.