



COSTAR PRO SHIELD 50

Self-Adhesive Bituminous Waterproofing Membrane

PRODUCT DESCRIPTION

Costar Pro Shield 50 is a self-adhesive polymer modified bituminous, waterproofing sheet membrane, laminated onto a tough HDPE film on one side and a silicone release film on the other, inlaid with glass non-woven polyester. Costar Pro Shield 50 consist of multi-layer, synthetic roof waterproofing sheet and flexible polyolefins with excellent adhesion to both vertical and horizontal surface.

FEATURES

- Cold applied, self-adhesive and easy to apply
- Excellent adhesion to vertical and horizontal surfaces
- Excellent resistance to chlorides, sulphates, dilute alkalis and acids
- Good tear and puncture resistance
- Water and vapor proof

APPLICATION AREAS

Costar Pro Shield 50 is used as waterproofing or damp proofing membrane intended for concrete protection. It is also used for horizontal and vertical application for tanking below ground structures, subways and retaining walls.

APPLICATION

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.

Priming

Apply Costar Solvent based primer to a clean smooth

and dry surface by brush, roller or spray. Allow the primer to dry prior to the application of the membrane. The primer also acts as a binder for the dust which gets accumulated on the surface even after cleaning.

Alignment

Start the installation of all membrane plies from the low point or drains, so that 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 the roll of the membrane and aligning the side laps.

Application

Peel off the release film from the self-adhesive side and start unrolling the membrane and press it to the surface. Smoothen the membrane from the center to the edges with a wooden press in order to remove any entrapped air. Furthermore, an iron roller shall be used for rolling on top of the applied membrane to ensure a proper and strong adhesion of the bitumen compound with the base surface. Side overlaps shall be a minimum of 50mm on the selvedge and end overlaps 100mm.

Protection

On horizontal areas the membrane can be protected by laying a cement sand screed (50mm).

PACKAGING

1m width x 10m length per roll

HANDLING

Costar Pro shield 50 contains a tacky bitumen compound which can stick to human skin during application. Bitumen stains can be removed by using a cloth dipped in a suitable cleaner.



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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 50 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.

STANDARD

Costar Pro Shield IV conforms to the requirements of BS 8102.

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.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of constructionchemical 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.

LEGAL NOTE

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