



Since 2009

ROOFSHIELD

Seal the Roof, Shield the Home



Technical Data-sheet

It's Our Business to Protect Your Structure.

Advantages of Shield 404

- A **Safeguard** of water seepage.
- It has significantly **higher elongation**
- Better easy to **clean** dust, dirt streaks and bird droppings.
- The Shield-404 has excellent **CO2 diffusion** resistance.
- Prevents the **corrosion of rebar** within the concrete matrix, leading to superior structural protection.
- Shield-404 provides excellent **resistance to growth of algae** and fungi on the walls.
- **Low VOCs**, environmentally friendly and low odor.
- UV resistance.
- Good Tensile strength.
- Excellent Alkali and Water Resistance.

Warranty:

- Shield-402 comes with **10-year waterproofing** and performance, warranty when applied with Concrete Gum-Shield.

Description:

Roof Top Shield is made by a modified acrylate styrene copolymer and added special value qualities chemicals. Special for the roof top waterproof paint. Its is specially manufactured with anti-carbonation properties, provide long lasting durability, UV resistance, significantly higher elongation, tensile strength and water resistance in severest climatic conditions.

Recommended Uses:

Waterproofing protection for ...

- ◆ Roof top surface.
- ◆ Planter boxes, canopies.

How to Apply:

- ◆ Substrates must be sound and level,
- ◆ The surface free from protrusions, large pores, honeycombs, large gaping cracks, and ridges,
- ◆ Concrete substrates should be cured fully before Paint ROOF-SHIELD application.

Surface Preparation:

All substrates must be sound and free from dust, excess mortar, oil or other loose particles. Cracks or honeycombs shall be repaired using Shield Con Sealant and Shield Concrete Gum.

ROOF TOP SHIELD PRE STEPS:

- ⇒ Plaster/Smooth Concrete Surface: New masonry surfaces must be allowed to cure completely. It is recommended to allow 28 days as the curing time for new masonry surfaces.
- ⇒ CLEANING: The wall surface should be free from any loose paint, dust or grease. Growths of fungus, algae or moss should be removed by wire brushing and water and for the floor cleaning using Diamond cup Grinding Machine.
- ⇒ FILLING FOR CRACKS: For filling cracks up to 2mm use Shield-302 Crack Seal or Shield Con Sealant specially at the roof top surface.
- ⇒ Primer Coat: Must use for 10 years performance a primer coat such as Concrete Gum-Shield.



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Recommended Coverage:

1. Area 25 SFT per 1.0 Litre.

Curing:

- For maximum protection, allow 06 to 12 hours curing time after second coat.

Tensile Strength:

1.2 MPa

Elongation:

120-150%

Packaging:

1. Liquid Component – 20 liters
2. Liquid Component – 10 liters
3. Liquid Component – 05 liters

Shelf Life:

12 months when properly stored.

Storage:

Store under cover, in dry and cool place with temperature not accessing +35°C. Protect from freezing.

Application Temperature:

For Best Performance:

- ◆ Do not apply at temperatures below 4° above 45°.
- ◆ Do not dilute with water more than 10%.
- ◆ Do not use additives of any kind.

Application Process:

Roof Top Shield is a super waterproofing paint. The application must be done with two coats. After a Shield Base Coat, we can apply 1st coat of the paint. Do not mix water more than 10% in it. The 2nd coat in a direction perpendicular to the 1st coat. Leave the 1st coat to set between 3 to 6 hours before applying the 2nd coat.

Health & Safety Precautions

- ◆ Avoid contact with skin and eyes. Any splashes to the skin or eyes should be washed off with clean water.
- ◆ Wear protective gloves and eye protection when applied.

Test Data

<u>Property</u>	<u>Results</u>
01. Adhesion to Concrete	1.2 Mpa
02. Tensile Strength	1.4 Mpa
03. Elongation	120-150%
04. Water Absorption	0%
05. Waterproofing	Pass: Resisted 20 ft
06. Crack Bridging,	2 mm

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.



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