



CONCRETE GUM SHIELD

Code - Shield 302

≡ EnviroShield®
MASTER OF WATERPROOFING

It's Our Business to Protect Your Structure.

Advantages of CONCRETE GUM SHIELD

- Concrete Gum protects against soil moisture.
- A Safeguard of water seepage.
- Extends the life of structural slabs.
- Creates a flexible membrane that accommodates substrate movement.
- Shield Concrete Gum is a 10 years waterproofing warranty product.

Color:

- Transparent Color

Packaging:

Total Liquid Component – 10 litters

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:

5 °C – 40 °C

Description:

Technical Data Sheet

Concrete Gum Shield is a Waterproofing Basecoat which is an exterior water-proof undercoat paint formulated with engineered pure acrylics latex based on nanotechnology. Its unique surface cross linking feature coupled with organic-inorganic nano composite-based architecture contribute to its out-standing mechanical properties.

Recommended Uses:

Waterproofing protection for ...

- ◆ Roof top surface.
- ◆ Control Joint/Groove Cutting Filling
- ◆ External walls super waterproofing.

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 12 hours before Paint SHIELD-402/ SHIELD-403 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 Concrete Gum-Shield.

Crack Bridging

Concrete Gum Shield film has significantly higher elongation and offering a unique crack bridging ability of up to 2mm.

Structural protection

Protects from carbon and chlorine which gives protection against corrosion providing structural protection.



Since 2009

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Recommended Coverage:

1. Area 0.5–1.0 kg/m²

Curing:

- For maximum protection, allow 04 to 05 hours curing time after second coat.

Tensile Strength:

1.4 MPa

Elongation:

300%

For Best Performance:

- ◆ Do not apply at temperatures below 4° above 34°.
- ◆ Do not dilute with water or fresh mortar to Shield-302.
- ◆ Do not use additives of any kind.
- ◆ Do not apply thicker than 3 mm.
- ◆ Allow coating to harden sufficiently.
- ◆ Do not puncture membrane while setting tiles or others.
- ◆ Proper application is the responsibility of the user.

CONCRETE GUM 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: 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. For the floor 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.

Application Process:

Concrete Gum Shield is a ready product. Do not mix water or any materials in it. The application must be done with two coats. The 2nd coat in a direction perpendicular to the 1st coat. Leave the 1st coat to set between 3 to 8 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

Property	Results	Test Methods (Criteria)
01. Adhesive Pull-Off Strength	2.0 MPa	ASTM D 4541-A2
02. Adhesion to Concrete	1.2 Mpa	ASTM C 297
03. Tensile Strength	1.4 Mpa	ASTM D 412 (without mesh)
04. Elongation	300%	ASTM D 412 (without mesh)
05. Water Absorption	0%	ASTM D 570
06. Waterproofing	Pass: Resisted 20 ft	15 days at 0.3 MPa
07. Crack Bridging,	2mm	CR-TM 41.1

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



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