



Since 2009

SHIELD SUPER LATEX

Code - Shield 112



Technical Data Sheet

It's Our Business to Protect Your Structure.

Advantages of Shield 112

- Shield Supper Latex protects against soil moisture.
- A Safeguard of water seepage.
- Extends the life of structural slabs.
- It's breathable, allows interior moisture vapor to escape.
- Low VOCs, environmentally friendly, low odor.

Packaging:

1. Liquid Component – 5 Liters
2. Liquid Component – 10 Liters

Shelf Life:

24 months when properly stored.

Storage:

Store under cover, in dry and cool place with temperature not accessing +30°C. Protect from freezing.

Application Temperature:

5 °C – 40 °C

Coverage:

Preparing the Mixes for Bonding & waterproofing applications

1 ltr. of Shield-112 will cover 70 - 80 sq. ft. Area in 2 coats for a proportion 1 : 4 : 7 = Shield 112 : Water : Cement.

For Patching and concrete repair

Recommended mixing ratio: 5 kg Shield-112 + 15 ltr. Water 50 kg Cement + 150 kg Sand.

Description:

Shield Supper Latex is based on modified Styrene butadiene latex (SBR) used for high performance applications in waterproofing and repairs. It is used for repairs of concrete such as – floors, columns, beams, slabs & waterproofing of toilets & bathrooms & terraces. It bonds strongly to old & new concrete & plaster.

Typical Applications:

Waterproofing protection for ...

- ◆ **As a bond coat** - Plaster to plaster, concrete-to-concrete, plaster to concrete for plastering over brick masonry. Bonding coat & mortar for tiles & panels, underlays for special finishes such as top rendering coat for chemical resistant.
- ◆ **As waterproofing** – Waterproofing of small roof terraces, sunken portions of toilet & bathrooms, chajjas & lift pits, balconies & staircase.
- ◆ **As crack repair** - Repairs of plaster cracks more than 5 mm & in gaps developed between masonry and RCC members.
- ◆ **As rebar coating** – Coating for prevention of corrosion over rebars.
- ◆ **For Cladding** – Fixing or refixing of slip bricks, tiles, stones & marble bedding.
- ◆ **Concrete repair mortars** - Improves the durability of the mortars and it can be used for making polymer modified mortars for patching and concrete repair.
- ◆ **Cement mortars** - For filling holes, reconstructing damaged areas and finishing surfaces on buildings and precast elements in concrete .

Features:

Multipurpose – It is multipurpose & economical product, easy to use.

Cracking – It prevents cracking by improving flexural strength.

Hardness – Improves the hardness & prevents dust generation.

Shrinkage – Reduces drying & aging shrinkage cracks.

Bonding – Bonds strongly to concrete, masonry, stone work, plasters, steel & the building materials.

Corrosion – Improves erosion resistance & prevents corrosion.

Waterproofing - Prevents leakage & dampness.



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EnviroShield[®]
MASTER OF WATERPROOFING

Curing:

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

For Best Performance:

- ◆ Do not apply at temperatures below 4° above 34°.
- ◆ Proper application is the responsibility of the user.

Health & Safety:

- ◆ Use rubber hand gloves & safety goggles, while using Shield-112
- ◆ Case of contact with skin, wash with plenty of water.
- ◆ Keep out of reach of children's.

Precautions & Limitations

- ◆ Recommended dosage to be followed to achieve desired results.
- ◆ When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable.

Durability - Enhances strength of a repair mortar & provides durability.

Coverage - Excellent Coverage -70-80 sq.ft per kg/ in 2 coats, hence economical.

Method of Application:

SURFACE PREPERATION

- ◆ Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance, & dust. Degrease the surface by using suitable solvents.
- ◆ Repair the concrete spalled portion by saw cutting the extreme edges of the repair location to a depth of at least 10 mm to avoid featheredging & to provides strong substrate.
- ◆ Clean the concrete surface to remove any contamination where breaking is not possible. Roughen the surface by light scrabbling or grit blasting.
- ◆ Expose corroded rebars in the repairing area fully. Remove all loose scales & corrosion deposits & immediately clean the surface.

As a bond coat:

Shield 112: Water : Cement = 1:4:7

Apply a single coat of the mixed quantity of Enviro Shield. When coat is tacky, apply the plaster or concrete according to the situation. Always add cement to the liquid.

As a waterproofing coat:

Shield 112: Water : Cement = 1:4:7

Brush apply the 1st coat. Apply 2nd coat after 1st coat is dry approximately 4-6 hrs between two coats. Overlay the 2nd coat with screed/plaster for protection and finish.

Test Data

| <u>Property</u> | <u>Results</u> |
|--------------------------------------|-------------------------------|
| 01. Appearance | Free flowing liquid |
| 02. Colour | Milky white |
| 03. Specific Gravity @30°C. gms / ml | 1.02 ± 0.02 |
| 04. PH value | 8-9 |
| 05. Elongation | 10% |
| 06. Chemical resistance | Resists mild acids & alkalies |
| 07. Waterproofing | Pass: Resisted 20 ft. |

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



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