



INNOVATION | SUSTAINABILITY | EXCELLENCE

NIRMAAHAN

NGPL ShieldEx AC





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DESCRIPTION : A white coloured Acrylic emulsion base waterproofing and mortar modifying compound.

ADVANTAGES : UV resistant & flexible and tough coating

Convenient and economic product

Improves workability of mortar

Lowers rebound loss when plastering

Makes mortar dense and improves compressive strength

Coating of slurry of **NGPL ShieldEx AC** and cement acts as a barrier which prevents water penetration.

AREAS OF APPLICATION :

Can be used for waterproofing of roof, bathroom, balcony, water retaining structure etc.

As a bond coat between old & new concrete

As a mortar modifier for brick masonry and plastering

As a repair mortar for spalled concrete and plaster

As corrosion preventive coat for reinforcement.

To fill wide cracks

SURFACE PREPARATION: Clean the surface and make it free of dirt, oil/grease, laitance etc. Moist the surface with water. Remove standing water.

APPLICATION METHOD :

- 1) Waterproof coating: Slowly add cement in SBR latex under constant stirring with mechanical stirrer at 400 to 500 rpm till lumps free consistency. Wait for 5 minutes to get entrained air bubbles to escape. Mix occasionally while applying to avoid separation. Apply with paint brush or roller. On drying apply 2nd coat in perpendicular direction. Do the ponding test after at least 24 hours.
- 2) Bond coat: Apply single coat of slurry on old concrete by brush or roller. When coat is still tacky lay new concrete layer.
- 3) Coating on reinforcement: clean and remove loose scale from the exposed reinforcement. Apply mix slurry coat by brush
- 4) Crack Filling: Clean & moistened the crack surface. Filled the crack filling mortar modified with SBR latex by putty blade.



Dosage and ingredient ratio : As shown in below table.

Sr. No.	Application	Ratio
1	Waterproof coating	1 part NGPL ShieldEx AC : 1.5 part Cement
2	Preventive coat for reinforcement	1 part NGPL ShieldEx AC : 1 part Cement
3	Modified & repair mortar	150 kg Sand : 50 kg Cement : 8 to 10 kg NGPL ShieldEx AC : 25 Ltr Water
4	Crack filling mortar	150 kg fine Sand : 50 kg Cement : 8 to 10 kg NGPL ShieldEx AC : 25 Ltr Water

PARAMETERS

Property	Value	Specification
Colour	Milky white	-
pH	8.21	8 to 10
Specific gravity	1.022	1.02 ± 0.01
Solid content	30%	$30 \pm 2 \%$
7 day compressive strength	16.23 N/mm ²	>14 N/mm ²

Coverage : 24 to 27 Sq. Ft. per kg in 2 coats.

Pack size : 5 kg, 10kg, 20kg, 50kg, 100kg & 200kg

Shelf Life : 18 months from the date of manufacture in sealed condition. Store in a cool and dry place away from direct sunlight.

Precautions : Use safety goggles and gloves. In case of eye contact wash with plenty of water.

If swallowed do not induce vomiting and seek medical assistance.



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