



Lease Life  
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Structures

# SUPERSHIELD

## BONDPLAST

Multi-Purpose Polymer Dispersion



### PRODUCT DESCRIPTION

SUPERSHIELD BONDPLAST is a Multipurpose high solids, polymer dispersion, specially designed for fortifying Portland cement compositions, used in primer waterproofing coating, waterproofing plastering, anticorrosive coating, Industrial flooring, Tile adhesives and in repair mortars. SUPERSHIELD BONDPLAST improves curing qualities, enhances bond and strength, Imparts excellent water and weather resistance, and reduces shrinkage cracking.

### RECOMMENDED USES

- 4 in 1: Bonding agent - waterproofing admixture (CE certified) - plasticizer - strength improver
- Bonding slurry coats for renders and screeds
- Waterproof rendering and coatings with increased adhesion and reduced cracking (it is also suitable for use as a bonding agent or improver with gypsum and lime-based plasters)
- High strength floor screeds/overlays with reduced surface dusting and high water and wear resistance
- Patch, repair and reprofiling mortars
- Pointing mortar for masonry joints

### FEATURES AND BENEFITS

- Concentrated high-performance formulation
- Significantly improved workability
- Enhanced strengths and impermeability
- Excellent adhesion even on smooth substrates
- Reduced cracking
- Increased resistance to frost and freeze/thaw damage
- Improves the chemical resistance of mortars and concretes



## TECHNICAL DATA

General Characteristics	
PROPERTY	VALUE
Colour	White Colour
Chemical Base	Polymer modified dispersion
Density	1.01 to 1.04 kg/litre [ 23°C]
Chloride Content	<0.1% by mass
Alkali Content	<0.4% by mass
Corrosion Behaviour	Complaint with EN 934-1 clause 5.1

## CONSUMPTION / MIXING RATIO

APPLICATION	SUPERSHIELD BONDPLAST WATER: CEMENT	DILUTION IN WATER	APPLICATION AREA	CONSUMPTION OF BONDPLAST AT MENTIONED RECOMMENDED DILUTIONS
Primer	-	1:0.3	Crack Filling etc.	0.033 Ltrs/Sqm thickness at after: Powder ratio of 0.5 -
Waterproof Slurry coating	1:4:8-10	1:4	Waterproof Coating	0.075 Kg/Sqm per coat
Polymer Mortar	-	1:6	Polymer Repair Mortar	0.035 Kg/Sqm thickness at water: Powder ratio of 0.5~
Polymer Concrete	1:4:8-10	1:8	Repair Concrete and Screed	4-6 % by weight of cement at water: Powder ratio of 0.5
High Performance Polymer Concrete	-	1:4	Repair Concrete and Screed	10-15% by weight of cement at water: Powder ratio of 0.5 ~
General Plastering	200 ml 50 Kg Bag of Cement	-	Internal & External Walls	0.4% by weight of cement at water: Powder ratio of 0.5 ~
Waterproof Plastering	-	1:4	Concrete & Masonry Wall	4-6 % by weight of cement at water: Powder ratio of 0.5 ~



## APPLICATION GUIDELINES

### Surface Preparation

Clean and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Paint, cement laitance, old coatings, and any other contaminants. Cementitious substrates should be pre-saturated surface dry with clean water.

### Mixing

SUPERSHIELD BONDPLAST is to be added to cement/ cement mortar/concrete/grout depending on the type of application as per the table above. Mixing of diluted SUPERSHIELD BONDPLAST to cement mortar should preferably be done manually by volume as per the table.

### Application

#### WATERPROOF COATING

Prepare the base, as indicated in the above table. Spread waterproofing slurry by using SUPERSHIELD BONDPLAST: Water 1: 4 by volume to obtain a thin layer. When the slurry coat is still fresh and sticky, apply mortar made out of SUPERSHIELD BONDPLAST: Water 1: 4 by volume and finish with a trowel/brush. During application, the mixture of SUPERSHIELD BONDPLAST and cement needs to be continuously stirred to prevent the cement particles from settling. Prepared material must be used within 20-30 minutes depending upon temperature humidity etc. When used as waterproofing slurry coating, a minimum of two coats is recommended and to be protected by screed on top for longer life. The standard coating system can be further reinforced by placing Supershield Refab fabric layer in between first and the second coat.

#### MASONRY JOINTING

Prepare the substrate, as indicated above. Make a firm mortar with fine sand using SUPERSHIELD BONDPLAST: Water 1: 6-8. Impregnate the area with a waterproof coat as above. While the coat is still wet, apply the mortar and immediately finish or

reshape the surface as required.

#### POLYMER CONCRETE

Dilute SUPERSHIELD BONDPLAST with water in the proportion of 1: 8 or 1:4 by volume. Prepare the mortar with this gauging liquid. Cured plaster with SUPERSHIELD BONDPLAST would harden faster and would be watertight. This type of polymer concrete should be used for all repair jobs for optimum performance.

#### BONDING SUCCESSIVE CONCRETE CASTS

Wash the surface with a high-pressure jet. Prepare a pasty mortar with SUPERSHIELD BONDPLAST: Water = 1: 6-8 by volume. Apply this mortar onto the surface in a layer of 20-30 mm thickness. Pour fresh concrete after about an hour. When used as a bonding agent between subsequent layers of plaster, the same procedure is to be adopted.

#### Curing

3-5 days with wet burlap/ gunny bag/ hessian cloth. Not to be ponded with water.

Notes: Cleaning of Tools: Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be removed mechanically. Waiting Time: As waterproof coating 26 hours 4/4 depending on temperature and humidity.

#### LIMITATIONS

Avoid application in direct sun and/or strong wind. Apply only to sound, prepared substrates. Do not exceed the maximum layer thickness. For waterproofing or damp proofing application, always use at least 2 coats. In areas of severe water penetration, three coats might be required. Protect freshly applied material from rain etc.



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## HEALTH AND SAFETY

SUPERSHIELD BONDPLAST contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during the handling of this product. If the product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

## STORAGE

SUPERSHIELD BONDPLAST should be stored in undamaged and unopened, original sealed packaging, in dry conditions between +5°C and +25°C and protected from direct sunlight. Protect from frost.

## PACKAGING

Available in 1 ltr, 5 ltr, 10 ltr, and 25 ltr containers.

## WARRANTY

Supershield warrants that the products manufactured by it shall be free from material defects and comply with the specifications given in their respective technical data sheets. Should any of the products be proven defective, the liability of Supershield shall be limited to the replacement of the product, and Supershield shall in no case be liable otherwise or for incidental or consequential damages. No other warranties, express or implied, shall apply, including any warranty of merchantability or fitness for a particular purpose. The user shall determine the suitability of the product for his intended use and assume all risks and liabilities in connection therewith. Supershield reserves the right to change the properties of its products without notice.