



# HIPPO BOND

— Tile & Stone Solutions —

## H-15 S.B.R Plus

### Description

- Provides excellent water impermeability
- Offers good workability at reduced water/ cement ratio
- Excellent Bonding between old and new substrate
- Acts as a protective coat for steel rebar
- Useful for improving Flexural, Tensile and Bond strength and for waterproofing of concrete/mortar
- Improved toughness and flexibility
- Mixes can be applied in thinner sections
- Improves abrasion resistance of flooring.

### Advantages

- Increases Flexural Strength, Tensile Strength and Bond strength
- Improves workability of cementitious mixes at low water-cement ratio
- Reduces shrinkage and water permeability
- Excellent bonding between old and new concrete
- Improves adhesion to most substrates such as concrete, stone, bricks, non-oily wood, glass, ceramic tiles etc.
- Improves abrasion resistance
- Allows trapped water vapours to escape and prevent blistering and adhesion failures
- Prevents salt penetration into the concrete, thus resisting the sulphate and chloride attack
- Acts as anti-corrosive for steel rebar
- Increases durability of waterproofing coating even in continuous contact with water
- Imparts resistance to fungal and microbial growth.
- Allows easy cleaning of tools and equipment used for the application.



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## Method Of Application

### 1. RCC REPAIR

#### Surface Preparation

1. All substrates should be clean and free of dust, laitance, plaster oil, paint, corrosion deposit, and any other deleterious material.
2. Corroded reinforcing steel should be exposed around its full circumference. Mechanically clean reinforcing steel to remove all corrosion products. Wash reinforcing steel with clean water and allow drying. It is always preferable to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

#### Application

1. Brush apply a primer coat of 1.0 : 1.5 Ratio H-15 S.B.R Plus over freshly cleaned and dry reinforcing steel.
2. Whilst primer is still wet, carefully apply and compact H-15 S.B.R Plus mix prepared as per the following proportions at a thickness up to 15-20mm.
3. Built up the required thickness in subsequent layers of 15-20 mm each over the final coat. Final layer can be finished with trowel to get a smooth finish.

Cement - 50 kg

Sand - 125-150 kg

S.B.R - 5.5-8.5 kgs

Water- just sufficient to attain desired consistency.



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## Method Of Application

### 2.BONDING AGENT

#### Surface Preparation

- Surface preparation is the most important step before application to achieve the desired results and avoid failure.
- Surface to which H-15 S.B.R Plus mixes are to be applied should be clean, sound and free of deleterious materials.
- All latencies, oil, debris, paint and unsound concrete must be removed.
- The surface must be prepared mechanically using a wire brush or shot blaster.
- Finally vacuum cleaned of all loose solids.
- Allow the concrete surface to dry. Do not place bond coat on standing water.

#### Application

- Mix H-15 S.B.R Plus and cement in the ratio of 1.0 : 1.5 by weight to get a smooth brushable coat.
- Paste this prepared is ready to use as a bonding material.
- Immediately apply single coat with a brush. Allow this coat to become tacky and then apply fresh concrete or mortar immediately.
- Avoid the bond coat from drying up completely. However, in case of complete drying, apply a second coat.



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## 3. WATERPROOFING

### Surface Preparation

1. For waterproofing of existing slab, the mother concrete slab must be stripped of its old treatment completely. Mechanical methods must be adopted to prepare the surface and vacuum suck to clean off all loose particles & debris.
2. Mother slab must be sound / mechanically surface prepared/grouted for internal cracks
3. Surface cracks must be suitable treated with Polymer Modified Mortar (PMM).
4. The slab must be thoroughly wetted with water to a state where it is saturated. But, extra care must be taken to see that there is no stagnant or standing water. Any such water must be mopped off. Ensure a saturated surface dry condition, where slab is thoroughly wet but dry to the touch before further treatment.

### Application

- Mix H-15 S.B.R Plus and cement in the ratio of 1.0 : 1.5 by weight to get a smooth creamy paste. Apply first coat when the surface is in touch to dry condition and allow it to dry for 4 - 5 hours.
- Apply second coat at right angle to First coat with same Sbr Plus cement ratio then allow the film to air cure at least for 72 hours.
- For horizontal application, 15 -20 mm cement sand mortar screed in 1:3 shall be laid over this coating, which protect the film from damage and allows further work.

## 4. FLOOR SCREED

### Surface Preparation

1. All surfaces must be clean and structurally sound. Oil and grease must be removed.
2. Profiling of the floor is essential. Cut the floor to get rectangle shape and sufficient depth for filling. Under no circumstances depth of filling be less than 12 mm. Edges can be cut to an angle less than 90° for better results.
3. For best results, the surface of the concrete should be mechanically scarier or scabbled, although other methods, including sandblasting and acid etching, may be employed. It is essential that the surface is thoroughly brushed and residues washed away.



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## Application

- Cement slurry modified with H-15 S.B.R Plus can be used as bonding coat (0.90 : 1.5 proportion).
- Make the floor screed mortar as specified below.
- Place the mixed material on the repair area immediately when the bond coat is tacky with a trowel to a required thickness.
- If the thickness is more than 25 mm, it should be filled in two layers with a bond coat.
- The area of the patch should be restricted to 20 - 22 sqft. For a larger application area, it should be divided into small areas of 15 - 20 sqft and then filled.
- Allow the final layer to set for 24 hours and cure with a sprinkle of water for 3 days.
- Light traffic can be allowed after 24 hours.

Cement - 50 kgs

Sand - 125-150 kgs

S.B.R -8.0 - 9.0 Kgs

Sand - Just Sufficient to attain desired consistency

## Coverage

| Coverage Area      | Coverage*                           |
|--------------------|-------------------------------------|
| Bond Coat          | 55-60 sqft par kg for single coat   |
| Waterproofing Coat | 25-30 sqft per kg for double coat   |
| Repair Mortar      | 7-8 sqft per kg for 10 mm thickness |



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## Areas Of Application

- All waterproofing and repair of mortar/concrete, waterproofing of flat roof, sunken portions.

## Technical Information

| Appearance         | Milky White Pourable Liquid |
|--------------------|-----------------------------|
| % Total Solids     | 40 ± 0.1                    |
| pH at 25° C        | 9.5 ± 0.5                   |
| Brookeld Viscosity |                             |
| LVF (CPS) SP 1,12  | 30 max                      |
| RPM at 25° C       |                             |

## Application Properties

|                                       |              |
|---------------------------------------|--------------|
| Pot Life (1.0 : 1.5)                  | 30 to 40 Min |
| Permeability to water (IS 2645 -1975) | Passes       |
| Adhesion                              | Excellent    |

## Precautions

- Always use fresh, cement and sharp clean, well graded aggregates.
- It is used with OPC/PPC grade of cement.
- Keep mixing time to a minimum - see above recommendations
- Always add cement into S.B.R Plus and not S.B.R Plus in cement.
- Do not apply coating over loose and debond surface.
- Don't use hard water for mixing with polymer / cement.



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## Packaging

- Available in 1, 5, 20, 50 & 200 Kg.

## Shelf Life

- 12 months seal pack in ideal storage conditions.

## Storage

- Store between temp of +5 and 40° C. Keep containers closed when not in use.  
Protect from direct Sunlight and freezing

## Safety And Handling

- Keep out of reach of children. Keep in cool place. If in contact with eyes, rinse with  
If in contact with skin, wash immediately with plenty of soap and water.

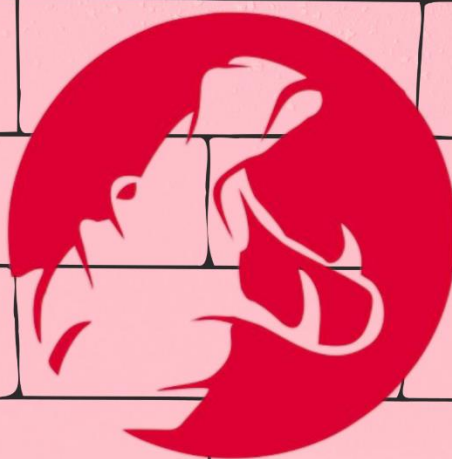


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## Areas Of Application

| Areas                          | Application |
|--------------------------------|-------------|
| Roofs                          | Yes         |
| Bathrooms                      | Yes         |
| Terraces                       | Yes         |
| Concrete                       | Yes         |
| Masonry Repair                 | Yes         |
| Steel Reinforcement Protection | Yes         |
| New to Old Concrete bonding    | Yes         |



**HIPPO BOND INDUSTRIES LLP**