

# CEMENT MODIFIER

# BOND R

## TECHNICAL DATA

### 1.0 DESCRIPTION

Bond-R is an acrylic polymer which when added to Portland cement compositions, greatly improves their physical and chemical performance, whether used indoor or outdoor.

The improvements obtained using Bond-R are superior to those achieved using P.V.A. and styrene-butadiene emulsions. The properties improved include tensile and flexural strengths, abrasion and impact resistance, adhesion to existing concrete and resistance to oil and grease.

### 2.0 PROPERTIES

2.1. Colour	White.
2.2. Specific Gravity	1.07.
2.3. Flash Point	Non-Flammable.
2.4. Viscosity	Low.
2.5. Toxicity	Non-Toxic.
2.6. D.G. Classification	Non-Hazardous.
2.7. Shelf Life	1 year in sealed containers as supplied (once opened product should be used within 3 months). Protect from frost.

### 3.0 USES

Uses for Bond R modified concrete and plaster include;

- Heavy duty flooring.
- Topping and patching mix for existing damaged floors.
- Levelling screed or underlay for decorative flooring.
- Terrazzo.
- Precast panels.
- Patching of spalled concrete.
- Bridge deck repairs.

### 4.0 APPLICATION INSTRUCTIONS

- 4.1. Air and surface temperature must be 5°C or higher during and for 4 days following application. Avoid use during very hot, dry weather as this may result in fine surface cracking.
- 4.2. BOND R should not be used on floors subject to rising damp.
- 4.3. Dust, loose or weak areas must be removed. Areas badly soaked with oil or grease must be chipped out. Oil, grease or paint on the surface can be removed by scouring with a hot detergent solution. The surface must then be rinsed thoroughly with clean water and left to dry.
- 4.4. When spalled concrete is being repaired all unsound material must be removed and all rusted reinforcing exposed. Remove rust and coat exposed steel with a suitable zinc rich primer.

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION INSTRUCTIONS (continued)

#### 4.5. PRIMING

All surfaces to be coated or patched should be primed to ensure maximum bond

##### 4.5.1. Method A:

To a 1:1 mixture of BOND R and water add enough fresh cement to obtain a wet brushable slurry. Brush the slurry firmly into the surface to be coated and apply topping or patch material before the slurry coat has dried.

##### 4.5.2. Method B:

Brush a mixture of 1:1 BOND R and water over the surface to be coated at approximately 6m<sup>2</sup>/litre. Allow this coat to dry for 12 hours minimum. Apply a second coat to the surface and apply topping or patch material before this coating dries.

#### 4.6. MIXING

Dilute 1 part BOND R with between 1 and 4 parts water depending on intended use as below. Mix this liquid with the desired sand cement blend to obtain a semi-dry, plastic consistency. Mixing should not exceed one and a half minutes.

#### 4.7. MIX RATIOS

Suggested mix ratios for various applications are as follows:

##### 4.7.1. *Heavy Duty Flooring.*

3 parts suitably graded aggregate to 1 part cement.  
1 part BOND R to 1 part water as gauging liquid.

##### 4.7.2. *Patching and Spall Repair.*

2 parts hard plastering sand to 1 part cement.  
1 part BOND R to 1 part water as gauging liquid.

##### 4.7.3. *Light Duty Levelling Screed or Underlay.*

3 parts flooring sand to 1 part cement.  
1 part BOND R to 4 parts water as gauging liquid.

##### 4.7.4. *Tile Adhesive.*

3 parts of sand to 1 part cement.  
1 part BOND R to 2 parts water as gauging liquid.



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## TECHNICAL DATA Continued

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### 4.8. LAYING

Spread the mix to the desired thickness, compact with a tamping bar and level with wooden floats. Close the surface with a metal float and do not rework after this. Do not cure with water. Avoid using during rapid drying conditions. Foot traffic may be allowed after 24 hours.

Full cure is obtained after 14 days.

4.8.1. Minimum application thickness will depend on the size of aggregate in the mix and service conditions. As a guide, heavy duty flooring should be a minimum of 6mm thick and light duty toppings of 1.5mm minimum.

### 5.0 PACKAGING

4, 20 and 200 litre containers.



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