



## **BOSCOCEM 475**

### **SBR Latex Emulsion Additive**

#### **TECHNICAL DATA SHEET**

##### **Description**

Boscocem 475 is a styrene butadiene rubber latex emulsion additive. It is designed for use as an integral bonding agent with cement-based products in slurry bonding coats, mortars, screeds, renders and tile adhesives. It is used to improve adhesion to properly prepared substrates. The tile adhesive so prepared is good for bonding all types of tiles.

##### **Uses**

Cement based toppings, patching mortars, leveling compounds and terrazzo  
Waterproofing cement/sand renders / screeds  
Bonding concrete repair mortars  
Bonding agent for ceramic tiles, bricks, etc.  
Preparation of spatter dash

##### **Features and Benefits**

Increases flexural and tensile strength  
Improves bond strength  
Improves workability  
☑Improves abrasion resistance  
Reduces shrinkage and cracking  
Resists chemical and water resistance  
Protects from freeze-thaw damage  
Reduces water absorption of mortar

## TYPICAL PROPERTIES APPLICATION INSTRUCTIONS

Colour	White emulsion
Specific Gravity	1.02
pH	7.8-10
Solid Content	45%
Compression Strength	>40MPa at 28 days
Flexural Strength	>8MPa at 28 days
Bond Strength	>1.0 MPa at 28 days

\* The figures of mechanical strength listed above were achieved by assessing the properties of 3:1 sand: cement mortar containing Boscocem 475 in the proportions 9 liters per 50 kg cement

### Surface Preparation

Surface must be structurally sound. Remove all deteriorated concrete, dirt, oil, grease, curing compounds, coatings and all bond-inhibiting materials from surface. New concrete and masonry surfaces must be cured 28 days. Preparation work should be done by high-pressure water blast, or other appropriate mechanical means to obtain a clean, exposed aggregate surface. Saturate surface with clean water. Substrate should be saturated surface dry with no standing water during application. Follow the surface preparation directions for the product in which Boscocem 475 is being used as an admixture.

### Mixing

Bonding slurry: A mixture of 1:1.5 Boscocem 475: OPC (by volume) bonding slurry is prepared and mixed in a clean container until a creamy brush consistency is obtained. Mix only the amount that can be used within the working life of the product.

Polymer admixture for mortars: With mixer running, add measured quantity of Boscocem 475, water, OPC, sand and aggregate depending on type of application (refer to the following mix designs for batching proportions). Mix to desired consistency.

### Typical designs are detailed below:

1. Render (Recommended thickness: 6mm to 8mm)		
	By Weight	By Volume
Cement	50 kgs	1 part
Sand	125 kgs	2 parts
Boscocem 475	10kgs	
Water	To get desired consistency	

Approximate Yield: 0.08m<sup>3</sup>

2. Heavy Duty Floor Screed (Recommended thickness: 25mm to 40mm)		
	By Weight	By Volume
Cement	50 kgs	1 part
Sand	75 kgs	1.25 parts
Granite chips	75 kgs	1.25 parts
Boscocem 475	10 kgs	
Water	To get desired consistency	
Approximate Yield:	0.08m <sup>3</sup>	

### Application

Bonding fresh mortar or concrete to hardened concrete: The properly prepared surface must be damp but free of standing water or puddles. Scrub bonding slurry thoroughly onto prepared substrate. Be sure entire surface and edges are coated. Apply mortar or concrete while bonding slurry is soft and plastic.

Polymer modified mortars: Must be placed immediately following bonding slurry. Trowel immediately and broom finish, if needed. Avoid over troweling or over finishing surface. It is impossible to achieve a hard steel trowel finish Boscocem 475 is normally self-curing. In hot weather



or windy conditions, as soon as possible, the use of polyethylene sheeting is recommended for a minimum 24 hours.

### **Curing**

Boscocem 475 applications are cement based and in common with all such materials, must be cured in accordance with good concrete practice. The use of polythene sheeting is recommended for a minimum 7 days to prevent rapid drying out. Alternatively a BOSTIK curing aid can be used (see appropriate technical data sheet).

### **Cleanup**

Wash all equipment in water or water/detergent immediately on completion of application and mixing. Clean drips, spills and smears while mix is still wet. Mixes containing Boscocem 475 are extremely difficult to remove if allowed to dry before cleaning.

### **Packaging**

Boscocem 475 is available in 1, 5, 20, 20 and 200 Liter Drums.

### **Storage**

Boscocem 475 has a shelf life of 12 months from date of manufacture when kept in a dry store in the original, unopened. Material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture.

Do not freeze

### **Health & Safety**

Skin contact may cause moderate irritation and dermatitis

Eye contact may cause severe irritation and redness.

Extensive inhalation of vapours may cause irritation to the throat, lungs, skin, and nose; nausea and headache.

Ingestion may cause irritation to the mouth and stomach.

For skin contact, remove and launder contaminated clothing. Wash thoroughly with soap and water. If irritation persists, call a physician.

For eye contact, flush with water for 15 minutes. Call a physician.

For inhalation, remove victim to fresh air .Call a physician.

### **Fire**

Product is non-flammable and poses no fire risk.

### **Warranty**

Whilst Bositk India (P) Ltd., strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the use of the product, since the method and place of application of the products are beyond their control. Its guarantee is therefore limited to the quality of materials delivered.

### **BOSTIK SMART SUPPORT**

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