



**RAMCO**  
**SUPER**  
**BOND**  
EPOXY

**RAMCO**  
**SUPER**  
**BOND**  
SBR



# Ramco Super Bond

Ramco offers two specialized types of bonding variants to meet diverse construction requirements:

1. **Ramco Super Bond - Epoxy**
2. **Ramco Super Bond - SBR**

## Ramco Super Bond - Epoxy

Ramco Super Bond – Epoxy is a resin based bonding agent designed to join old and new concrete surfaces, enabling them to act as a single, cohesive unit. It creates a strong, lasting bond between layers, significantly enhancing the durability and integrity of the structure.

It ensures proper adhesion of new concrete to existing surfaces, a critical factor for the structure's overall performance and strength

### Application Areas

Concrete Repair  
Bonding new concrete to old concrete  
Masonry Repair  
Precast Joints

### Benefits

Superior Bond Strength  
Extended Pot Life  
Enhanced tackiness time

### Mixing Instructions

**Preparation:** Mix only the required amount to avoid waste, as unused product cannot be used after its pot life.

**Proportion:** Combine "Resin – (Part A)" and "Hardener – (Part B)" in a 3:1 ratio by weight in a clean container.

**Mixing:** Use a low-speed stirrer to mix for 2–3 minutes until the consistency is uniform.



# Ramco Super Bond - Epoxy Application Guidelines

Apply Ramco Super Bond – Epoxy, with a brush over the prepared surface.

Place freshly mixed concrete, grout or repair mortar over the bonding agent immediately.

Do not allow the bonding agent to dry or become tack-free before applying fresh material. If it dries, clean the surface and reapply the bonding agent.

Apply only a thin layer (0.8–1 mm) of the bonding agent to prevent sagging of material caused by excess thickness.

## Ramco Super Bond - Epoxy Technical Parameter

Appearance	Liquid
Mixing Ratio	1 (Part A) : 3 (Part B)
Colour	Part A - clear liquid / Part B - yellowish liquid
Tack free time	15 Minutes
Pot Life	20 Minutes
Pull-out Strength @ 7 days	5 - 6 N/mm <sup>2</sup>
Flexural Strength @ 7 days	42 - 43 N/mm <sup>2</sup>
Compression Strength @ 7 days	94 - 95 N/mm <sup>2</sup>

**Storage instructions:** Store in a covered, dry and moisture-free place.

# Ramco Super Bond - SBR

Ramco Super Bond - SBR is a high-performance specifically designed polymer additive for cementitious systems. When added to cement, it forms a reinforcing polymer network that significantly improves bonding strength, durability and flexibility, ensuring long-term performance.

## Key Benefits

**Waterproofing:** Provides superior water resistance by enhancing waterproofing property of mortar.

**Improved Toughness:** Increases flexibility and minimises cracking of screed.

**Excellent Adhesion:** Bonds the mortar effectively to various substrates, including concrete, stone and brick.

**Mix Cohesion:** Makes the mix cohesive and rich.

## Application Areas

**Beam and Column Joints:** Ideal for bonding old and new concrete.

**Micro Concrete Applications:** Enhances the bonding between old surface and micro concrete.

**Repair Mortar Applications:** Improves bonding and performance in repair mortars.



# Usage Guidelines of Ramco Super Bond SBR

## 1. Bonding Agent

**Mix Ratio:** 1 part Ramco Super Bond - SBR: 1 part cement

**Steps:**

1. **Surface Preparation:** Clean the surface to remove dust, grease and loose material.
2. **Bonding Coat:** Mix Ramco Super Bond - SBR and cement (1:1) and apply as a bonding agent by brush.

## 2. Waterproofing Applications

**Mix Ratio:** 1 part Ramco Super Bond - SBR: 2 part cement: 0.5 part water

**Steps:**

1. **Surface Preparation:** Clean and prepare the surface thoroughly.
2. **Inspect and Repair:** Identify and rectify cracks or other damages.
3. **First Coat Application:** Apply a horizontal coat (0.8–1 mm thick).
4. **Drying Time:** Allow adequate drying (6–8 hours).
5. **Second Coat Application:** Apply a vertical coat (0.8–1 mm thick).
6. **Protective Screed:** Cement Sand admixed with Ramco Super Shield IWP as protective layer is recommended on top of waterproof coating, after 2-3 days of air curing of 2<sup>nd</sup> coat of application.

## 3. Repair Mortar

**Mix Ratio:** 1 Part Ramco Super Bond - SBR : 3 Parts of cement mortar  
(e.g. 330 ml of Ramco Super Bond- SBR with 1 Kg of cement mortar)

**Steps:**

1. **Mix Ramco Super Bond SBR** and cement mortar to achieve a consistent mortar.
2. Apply to damaged areas for effective restoration and durability.



# Ramco Super Bond - SBR

## Technical Parameters

Appearance	Liquid		
Colour	White		
Tack Free Time	35 min		
Mixing Ratio	Waterproofing Application	Bonding agent	Repair Mortar (Cement : Sand)
	1 : 2 : 4 (Water : SBR : Cement)	1 : 1 (SBR : Cement)	For 1: 3-2.5% of cement For 1: 4-5% of cement For 1: 5-10% of cement
Coverage	5 to 6 sq. ft. / litre of slurry in two coats	7 to 8 sq. ft. in two coats	As per required thickness
Compression Strength	---	---	Increased by 25% after addition of Superbond SBR
Pot Life	60 min		
Pull-out Strength	> 2.5 MPa @ 28 days		
Water Penetration for Waterproof Application	Nil @ 5 Bar pressure		
Elasticity	> 50%		

## Mix Ratio:

1. Waterproof Application	1 Part Ramco Super Bond SBR: 2 Part Cement: 0.5 Part Water
2. Repair Mortar	1 Part Ramco Super Bond SBR: 3 Part Cement mortar
3. Bonding Agent Application	1 Part Ramco Super Bond SBR: 1 Part Cement

**Storage instructions:** Store in a covered, dry and moisture-free place.

# Right Products **for** Right Applications

