

PRODUCT CODE 0000

# SmartCare Repair Polymer

Asian Paints SmartCare Repair Polymer is a high performance modified Styrene-butadiene rubber (SBR) based binder. It is recommended as a bonding agent for concrete/mortar in repair like spalled concrete - floors, chajjas, beams, slabs as it bonds old and new concrete surfaces strongly with plasters. It can also be used for waterproofing of toilets and bathrooms, small terraces. It also serves as a bond coat for repair patch work.

## PRODUCT BENEFITS

### Multipurpose

Robust product that is economical, easy to handle and has multiple applications.

### Bonding

Bonds strongly to concrete, plasters, masonry, cementitious surfaces.

### Mortar modifier

Improved flexibility, low water cement ratio and resistance to water penetration.

### Shrinkage

Reduces drying & aging shrinkage cracks.

### Easy to mix

Compatible and faster mixing promoting worker efficiency.

### Cracking

Reduces cracking through enhanced mortar flexural strength.

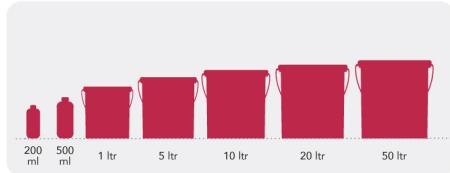
### Abrasion resistance

Increases wear resistance under rubber-wheeled traffic.


  
**LEAD FREE\*GUARANTEE**
\* All Asian Paints products contain no added Lead, Mercury, Arsenic or Chromium from April 2008.

## PRODUCT FEATURES

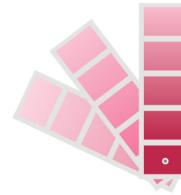
### AVAILABLE PACKS



**Shelf life:** 18 months from the date of manufacture when stored in original un-opened pack under normal conditions.

### COLOURS AVAILABLE

## Clear\*



\*Please note: SmartCare Repair Polymer is an integral waterproofing liquid.

### COVERAGE

As a waterproofing coating<sup>1</sup>:

**2 COATS**  
1.5-2 m<sup>2</sup>/kg



As a mortar modifier<sup>2</sup>:

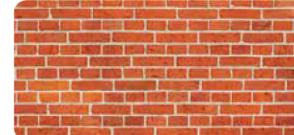
3.5 kg per 50 kg of cement



As a bonding agent<sup>3</sup>:

4.5-5 m<sup>2</sup>/kg  
**PER COAT**

### RECOMMENDED USAGE



- For concrete/mortar repairs: RCC members, spalled concrete, repairing floors, beams and pre-cast slabs, chajjas.
- As a polymer modified mortar/concrete in old and new constructions.
- For waterproofing: Basement side walls, small roof terraces, sunken areas of toilets & bathrooms, chajjas & lift pits, balconies.
- For Dampness & Efflorescence, Please use AP SmartCare DampBlock 2k.
- As a bond coat: For bonding of new concrete to old concrete and in repair patch work.
- Floor screeds and toppings: Non-dusting floors.

## HOW TO APPLY

### APPLICATION PROCESS

#### 1. SURFACE PREPARATION

- STEP 1 Remove all loose concrete, grease, mould oil or curing compound from concrete surfaces using wire brush, scrubber and suitable solvents (if required).
- STEP 2 Saw cut the concrete areas to a square or rectangular profile to a minimum 10mm depth at the extreme edges to promote enhanced bond strength.
- STEP 3 Clean the concrete surface for the regions where breaking is an issue. Roughen the surface free of loose dust and particles.
- STEP 4 Saturate the surface thoroughly with portable water prior to priming. Make sure to remove any excess of water if present.

#### 2. WATERPROOFING COATING

- Use SmartCare Repair Polymer as a solution for repairs and preventive waterproofing solutions only. For treating issues of dampness & Efflorescence, Asian Paints SmartCare DampBlock 2k is recommended.
- STEP 1 1:2 ratios by weight of AP SC Repair Polymer to cement ratio is maintained for using it as a waterproofing slurry coat.
- STEP 2 Mix for 2-3 minutes to avoid air entrapment. Slowly keep on adding cement to SmartCare Repair Polymer until the required consistency is achieved.
- STEP 3 Mechanical stirrers are recommended for efficient mixing.
- STEP 4 Apply 2 coats of the mix by brush in a span of 4-6 hours on the prepared concrete substrate.
- STEP 5 It is recommended to cover the coating with a protective screed to the desired slope & thickness.

#### 3. REPAIR MORTARS & RENDERS

A suitable mix ratio for patching repair mortar or render is as follows:

- STEP 1 Mix Design - Cement: Sand in 1:3 proportion and add AP SC Repair Polymer 7% by weight of cement and required amount of water.
- STEP 2 For bond coat application mix AP SC Repair Polymer and cement in the ratio of 1:1.
- STEP 3 Brush apply 1 or 2 continuous coat of the mix on the prepared concrete substrate.
- STEP 4 Ensure to overlay the repair mortar when the bond coat is still tacky. Recoat again if the tackiness is lost.

#### 4. BOND COAT

## ADDITIONAL INFORMATION

### TECHNICAL DETAILS

- a. **Type:** Modified SBR dispersion
- b. **Form:** White Liquid
- c. **% Solids:** 40-42%
- d. **Specific Gravity:** 1 to 1.1

### PRECAUTIONS

- Recommended dosage to be followed to achieve desired results.
- When working in hot temperature conditions, extra water may be added to the repair mortar to compensate for the evaporation loss & make the mortar workable.
- Surface should be in Saturated surface dry conditions.
- In case of bond coat application make sure the repair mortar is overlaid when the surface is tacky. Recoat again if the tackiness is lost.
- Stagnant water should be strictly avoided for application purpose.