

## PRODUCT CODE

# SMARTCARE REPAIR POLYMER

## PRODUCT DESCRIPTION

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.



## AREAS OF APPLICATION

- 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



## FEATURES & BENEFITS

- Multipurpose: Robust product that is economical, easy to handle and has multiple applications
- Easy to mix: Compatible and faster mixing promoting worker efficiency
- Mortar modifier: Improved flexibility, low water cement ratio and resistance to water penetration
- Bonding: Bonds strongly to concrete, plasters, masonry, cementitious surfaces
- Cracking: Reduces cracking through enhanced mortar flexural strength
- Shrinkage: Reduces drying & aging shrinkage cracks
- Abrasion resistance: Increases wear resistance under rubber-wheeled traffic

## DIRECTION FOR USE

### 1. SURFACE PREPARATION:

- Remove all loose concrete, grease, mould oil or curing compound from concrete surfaces using wire brush, scrubber and suitable solvents (if required)
- 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
- Clean the concrete surface for the regions where breaking is an issue. Roughen the surface free of loose dust and particles
- 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.

- 1:2 ratios by weight of AP SC Repair Polymer to cement ratio is maintained for using it as a waterproofing slurry coat
- Mix for 2-3 minutes to avoid air entrapment. Slowly, keep on adding cement to SmartCare Repair Polymer until the required consistency is achieved
- Mechanical stirrers are recommended for efficient mixing
- Apply 2 coats of the mix by brush in a span of 4-6 hours on the prepared concrete substrate
- 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:
- Mix Design - Cement: Sand in 1:3 proportion and add AP SC Repair Polymer 7% by weight of cement and required amount of water

### 3. BOND COAT:

- For bond coat application mix AP SC Repair Polymer and cement in the ratio of 1:1
- Brush apply 1 or 2 continuous coat of the mix on the prepared concrete substrate
- Ensure to overlay the repair mortar when the bond coat is still tacky. Recoat again if the tackiness is lost

## PRODUCT INFORMATION

### PACKAGING



### DOSAGE



- As a waterproofing coating: Mix proportion by weight; 1:2 (SmartCare Repair Polymer: Cement)
- As a mortar modifier: 7 % of SmartCare Repair Polymer by weight of cement
- As a bonding agent: Mix proportion by weight; 1:1 (SmartCare Repair Polymer: Cement)

### COVERAGE:

- As a waterproofing coating: 1.5-2 m<sup>2</sup>/kg in 2 coats
- As a mortar modifier: 3.5 kg of SmartCare Repair Polymer per 50 kg of cement
- As a bonding agent: 4.5-5 m<sup>2</sup>/kg per coat

### TECHNICAL INFORMATION

Type	Modified SBR dispersion
Form	White Liquid
% Solids	40-42%
Specific Gravity	1 to 1.1

### PRECAUTIONS & LIMITATIONS:

- 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

### SHELF LIFE:

- 18 months from the date of manufacture when stored in original un-opened pack under normal conditions