

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.


 WATER BASED

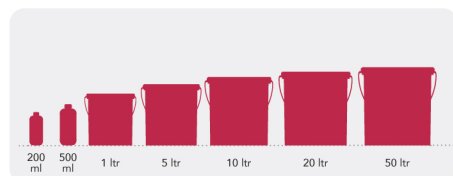

LEAD FREE* GUARANTEE

* 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 coating¹:

2 COATS
1.5-2 m²/kg



As a mortar modifier²:

3.5 kg per 50 kg of cement



As a bonding agent³:

4.5-5 m²/kg
PER COAT

1. Mix proportion by weight; 1:2 (SmartCare Repair Polymer:Cement)
2. 7% of SmartCare Repair Polymer by weight of cement
3. Mix proportion by weight; 1:1 (SmartCare Repair Polymer:Cement)

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.

4. BOND COAT

- STEP 1** For bond coat application mix AP SC Repair Polymer and cement in the ratio of 1:1.
- STEP 2** Brush apply 1 or 2 continuous coat of the mix on the prepared concrete substrate.
- STEP 3** Ensure to overlay the repair mortar when the bond coat is still tacky. Recoat again if the tackiness is lost.

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.