

SmartCare Repair Mortar



PRODUCT DESCRIPTION

Asian Paints SmartCare Repair Mortar is a ready to use single component polymer modified repair mortar. It is specially designed for repairs of RCC members like beams, columns and slabs because of its good compressive strength and shrinkage resistance. It is pre-blended with special additives which provides it excellent workability and adhesion to host concrete/masonry surfaces.

PRODUCT FEATURES

Easy to use: Single component ready to use powder which only requires addition of water at site
Shrinkage compensation: Dual shrinkage compensated and hence crack resistant
Bonding: Excellent bond strength to concrete and other masonry substrates
Strength: Develops high initial and ultimate compressive strength
Thickness: Suitable for repair of thickness up to 50 mm (maximum thickness in a single coat: 25 mm)

RECOMMENDED USAGE

- Repair of damaged beams, columns and other RCC members
- Patch repair of PCC and other non-reinforced masonry surfaces

PRODUCT INFORMATION

APPEARANCE

Free flowing grainy grey powder

PACK SIZE

25 kg

STORAGE CONDITIONS/ SHELF-LIFE

Shelf life is 6 months from the date of manufacturing. Store at cool and dry place in unopened condition

YIELD

14.1 litres at w/p ratio of 0.19 for 25 kg bag

TECHNICAL DETAILS

Properties	Specification	Results
Water to Powder Ratio	-	0.19+/-0.01
Pot Life	-	60 minutes
Compressive Strength @ 30°C	ASTM C 109 : 99	38 MPa at 28 day
Flexural Strength @ 30°C	ASTM C 580	8 MPa
Tensile Strength @ 30°C	ASTM C 307	2.5 MPa
Fresh Wet Density	ASTM C 138	2111 kg/m ³
Application Temperature	-	+5°C to + 40°C

Repair Range



APPLICATION PROCESS

SURFACE PREPARATION

- › Surface should be completely free of laitance, oil, dust, grease, plaster, paint, corrosion etc.
- › Smooth surface should be mechanically roughened by scrabbling or needle gun to form a good key. Edges of the areas for repair must be saw cut to 12 mm to avoid feather edging.
- › The substrate should be thoroughly soaked with clean water and any excess should be removed.
- › Apply bonding agent if required.

MIXING & APPLICATION

- › SmartCare Repair Mortar must be mixed with a slow speed drill (500 rpm) fitted with a spiral paddle.
- › Mix 25 kg of powder in 4.75 litres of clean & potable water (19+/-1% of the weight of powder, i.e., 4.5 to 5 litres).
- › Always put powder in to water.
- › Mix for at least 3 minutes for lump free consistency and apply using a steel trowel.

PRECAUTIONS & LIMITATIONS

- › Minimum thickness to be maintained 10 mm.
- › For higher thickness more than 25 mm, bond coat is recommended before applying second coat.
- › Strictly maintain water powder ratio.
- › Temperature of the mix should be maintained at approx. 30°C. During summer use cold water and in winters use warm water to regulate the temperature of the mix.
- › Mechanical stirrer to be used for mixing, avoid hand mixing.