

SMARTCARE MICROCONCRETE

Asian Paints SmartCare Microconcrete is a dual shrinkage compensated, flowable micro-concrete. It is used for the repair and restoration of damaged RCC structures like beams, columns, slabs etc.

FEATURES & BENEFITS

- Shrinkage compensation: Dual shrinkage compensated & hence crack resistant
- Flow: Self compacting flowable concrete which can be poured/pumped Strength: Develops high initial and ultimate compressive strength
- Moisture resistant: Resistant to moisture ingress
- Durable: Provides a durable and strong structural repair
- Easy to use: Single component ready to use powder which only requires addition of water

CHEMICAL & PHYSICAL PARAMETERS

- 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: 12.2 litres at w/p ratio of 0.14 for 25 kg bag



TECHNICAL PARAMETERS

PROPERTIES	SPECIFICATIONS	RESULTS
Water to Powder Ratio		0.14+/-0.01
Workability Time @30°C	ASTM C 1437	180mm, after 20 minutes
Compressive Strength @ 30°C	ASTM C 109 : 99	20 MPa at 1 day 40 MPa at 7 days 50 MPa at 28 days
Flexural Strength @ 30°C	ASTM C 580	9.5 MPa at 28 days
Tensile Strength @ 30°C	ASTM C 307	3.1 MPa at 28 days
Fresh Wet Density	ASTM C 138	2297 kg/m ³
Application Temperature		+5°C to + 40°C
Bleeding,%	ASTM C 940	0.0

SMARTCARE REPAIR MORTAR

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.

FEATURES & BENEFITS

- 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)

CHEMICAL & PHYSICAL PARAMETERS

- 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 PARAMETERS

PROPERTIES	SPECIFICATIONS	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

SMARTCARE GENERAL PURPOSE GROUT

SmartCare General Purpose Grout is a free-flowing, high strength, non-shrink cementitious grout. It is a blend of portland cement, graded fillers and other additives which imparts controlled expansion in the plastic/hardened state in addition to minimizing water demand. The graded fillers are assigned to assist uniform mixing and produce a consistent grout mix.

FEATURES & BENEFITS

- Shrinkage compensation: Dual shrinkage compensated & hence crack resistant
- Flow: Self compacting flowable grout which ensures high level of contact with load bearing areas
- Strength: Develops high initial and ultimate compressive strength
- Consistency: No bleeding & segregation
- Easy to use: Single component ready to use powder which only requires addition of water

CHEMICAL & PHYSICAL PARAMETERS

- Appearance: Free flowing grainy grey powder
- Pack size: 25 kg
- Shelf life: 6 months from the date of manufacturing. Store at cool and dry place in unopened condition
- Yield: 11.8 litres at w/p ratio of 0.15 for 25 kg bag



TECHNICAL PARAMETERS

PROPERTIES	SPECIFICATIONS	RESULTS
Water to Powder Ratio		0.15+/-0.01
Initial Setting Time		> 300 mins
Final Setting Time		< 600 mins
Flow in mm (Flow Meter) @ 30°C	ASTM C 1437	260 mm @ 20 mins
Compressive Strength (Mpa) @ 30°C	ASTM C 109:99	25 Mpa at 1 day 50 Mpa at 7 days 65 Mpa at 28 days
Tensile Strength (Mpa) @ 30°C	ASTM C 307	5 Mpa at 28 days
Flexural Strength (Mpa) @ 30°C	ASTM C 580	8 Mpa at 28 days
Fresh Wet Density	ASTM C 138	2430 Kg/m ³
Bleeding, %	ASTM C 940	0%
Settling/Segregation		Nil

SMARTCARE ACRYLIC BONDING AGENT

Asian Paints SmartCare Acrylic Bonding Agent is a single component white emulsion which is based on modified acrylic co-polymers. It is formulated to be used as a bonding agent for cementitious mortars, micro-concretes and cement plasters. The product is ready to use, has excellent grab characteristics and develops a tenacious bond of the new mortar/plaster/micro-concrete to the host concrete.

FEATURES & BENEFITS

- Adhesion : Provides excellent bond to concrete and masonry surfaces
- Flexibility : Improves flexural strength of cement and cementitious composition
- Versatile : Compatible with all types of cement
- Easy to use : Single component ready to use

CHEMICAL & PHYSICAL PARAMETERS

- Appearance: Low viscosity milky white liquid
- Pack size: 1L and 5L
- Shelf life: Shelf life is 18 months from the date of manufacturing. Store at cool and dry place in unopened condition
- Coverage: Depends on the Substrate Condition (porosity and undulations)
Direct application: 5-8 Sqm/L
Slurry coat with cement: 6-10 Sqm/L



TECHNICAL PARAMETERS

PROPERTIES	RESULTS
Density	1.0 1.0 ± 0.1 gm/cc
Solid Content	37 - 39 %
Viscosity	90 - 120 cPs @25°C
Open Time (direct application)	Approx. 2 hrs