

Smartcare Tile Master Super

Cementitious Tile Adhesive with slip resistance

Description

SmartCare Tile Master Super is a cementitious tile adhesive onto interior and exterior floors and walls with slip resistance. It is mixed with either water or latex admixture for installing ceramic tile and stone using the thin-set method of installation

Classification complies ISO 13007 and EN 12004 class for C1T. Cementitious Tile Adhesive (C) Normal (1) slip resistant (T).

Uses

- General purpose adhesive
- Indoor and outdoor fixing of ceramic tiles and mosaics of all types on floors, walls and soffit.
- For fixing porcelain tiles
- For fixing large format tiles
- Spot bonding for expanded polystyrene, rock and glass wool and other insulation material
- Suitable for wet and dry areas

Technical Features

SmartCare Tile Master Super is a grey or white powder composed of cement and graded aggregates. It contains a high quantity of resins and special additives created according to a formula developed in Asian Paints R&D Laboratories in collaboration with specialized American research center

Characteristics

- Excellent non-sag formula for wall applications
- Smooth, easy to trowel formula
- Dual purpose, for walls and floors
- Excellent adhesion property with porcelain tiles.
- Can be used for thick bed applications
- Formulated to suit for prevailing extreme climatic working conditions.

Properties

PRODUCT IDENTITY	
Type:	Powder
Colour:	Grey and White
Mixing ratio:	SmartCare Tile Master Super approx. 4.2 – 4.4 liters Water per 20kg bag
Consistency of mix:	Creamy
Density of the mix (kg/m ³):	1,650

Pot life on mix 35°C	2 Hrs.
Application temperature:	from +5°C to +40°C
Open time at 35°C	Approx. 20 minutes
Adjustability time at 35°C	Approx. 30 minutes
Ready for grouting on walls:	after 8-12 hours
Ready for grouting on floors:	after 24 hours
Set to light foot traffic:	Light traffic areas after 24 hours
	Heavy traffic areas after 48 hours
Ready for use:	7 to 14 days depending on actual temperature and RH

PERFORMANCE

Tensile Adhesion Strength ANSI A 118.4

TEST	EN REQUIREMENT	RE-SULTS
Normal Condition	0.5 N/mm ²	1.60 N/mm ²
Water immersion	0.5 N/mm ²	1.40 N/mm ²
Freeze thaw	0.5 N/mm ²	1.30 N/mm ²
Shear Bond Strength - 28 days	1.30 N/mm ²	
VOC:	Low	

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions



Packing

SmartCare Tile Master Super- 20 Kg Bag (72 bags per pallet)

Coverage

- SmartCare Tile Master Super 20 Kg bag will cover approx. 5.5 to 6.5 m² using 6 x 6 mm Square notch trowel.

Suitable Substrates	Suitable Tiles
Exterior Glue Plywood (EGP)**	Porcelain tile
Concrete/Masonry	Ceramic tile
Cement Plaster	Quarry tile
Cement Mortar Beds	Natural Stone
Cement Terrazzo	Pavers & Brick Ter-razzo
Cement Backer Boards***	
Gypsum Wallboard*	
Existing Ceramic Tile & Stone	

** When mixed with SmartCare SBR bonding agent. Interior use only.

*** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Methodology

Surface Preparation:

- The substrate must be adequately cured, mechanically sound, free of loose particles, grease, oil, paint, wax and other deleterious material or surface contamination and should be sufficiently dry.
- Cementitious substrate should not shrinkage after tile installation. In mild weather cementitious screeds must have cured at least 28 days. The screed drying time is subject to the screed thickness and site conditions
- The substrate must be plumb and flush in accordance with BS 5385. Plaster substrates must be approved by the plaster manufacturer for fixing ceramic tiles and must be suitable for the intended area of use.
- Surfaces that could become too hot, during the application, due to exposure to sunlight, consider shading or cooling down with potable water.
- Newly applied cement screeds must not have a residual moisture content over 4%
- Installer must verify that deflection under all live, dead and impact loads d floors does not exceed industry standards

Mixing

- It is recommended that only full bag of 20 kg is mixed. SmartCare Tile Master Super should

be mixed by mechanical means. Single bag may be mixed using a slow speed drill and spiral paddle or forced action mechanical mixer.

- Place the mixing water into the mixing bucket and add SmartCare Tile Master Super and mix for approximately 3-4 minutes until a smooth lump free consistency is achieved.
- Use approximately 4.2 - 4.4 liters of clean potable water for 20kg bag. Recommended to hold (± 0.5 Ltr) of water as per site conditions and application.
- For better adhesion results, mix SmartCare Tile Master Super with SmartCare SBR bonding agent (1part liquid to 4 parts water)
- Allow the mix to stand for 5 minutes, and then re-stir prior to use
- Note: In all cases the powder must be added to the water.

Application

Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side.

Tiles with lugs, grooves or an uneven back, must initially be back butter coated with the adhesives, in addition to the adhesive being troweled onto the substrate. Use a suitable notched trowel to achieve a uniform thickness. Apply the adhesive onto the substrate covering up to 1 m² at a time.

Press tiles firmly into position before the adhesive skins. Ensure that all the tiles are well bedded and that no voids occur under the tiles. Once the tiles have been finally laid, they must not be moved or open for traffic for 48 hours.

Note: Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much mortar as can be covered with tile in 15–20 minutes. Back butter large tiles > 200 mm x 200 mm to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and adjust level. Check mortar for complete coverage by periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skinned over (not sticky), remove and replace with fresh mortar.

Tile Grouting

Grouting can be carried out 24 hours after the completion of the tiling. Use SmartCare Tile Grout LM or SmartCare Epoxy Tile Grout 2 in 1.

Precautions & Limitations

- For veneer installations using this product, consult local building code requirements regarding limitations and installation system specifications.
- For light-colored marble or stone, use SmartCare Tile Master Super Grey for Floor and wall in white.
- For exterior use, fortify with SmartCare SBR Bonding Agent.
- DO NOT bond to particle board, luan, Masonite® or hardwood surfaces.
- Do not commence applying Tile in temperatures above 40°C or below 5°C
- Do not allow the product to skin prior to tiling
- For other uses or the use of Tile over substrates/situations not mentioned in technical brief, advised to contact Asian Paints Berger office.
- Being cement based, SmartCare Tile Master Super is alkali in nature, which can cause dermatitis. Thus while using SmartCare Tile Master Super, its recommended that applicators must wear PVC or similar gloves and safety goggles

Cleaning

SmartCare Tile Master Super should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically. Excess adhesive can be cleaned with water at wet condition.

Shelf Life & Storage Condition

SmartCare Tile Master Super have a shelf life of 12 months if kept in a dry store in the original, unopened bags at 25°C. High humidity will reduce the shelf life of bagged product.

Health & Safety Features

As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn (see packaging for specific instructions). Treat any splashes to the skin or eyes with fresh water Immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. Ensure the container is available for the medical attendant to examine any relevant instructions and contents details. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labelling.

Note: The information supplied in our literature or given by our employees is based on extensive experience and, together with that supplied by our agents or distributors, is given in good faith to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however, as we have no control over site conditions or the execution of work, we accept no liability for any loss or damage which may arise as a result thereof.

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