

SMARTCARE ULTRA TILE

TILE ADHESIVES & TILE GROUTS

High performance, polymer modified premium grade adhesive

PRODUCT DESCRIPTION

High-performance, polymer-modified, premium-grade adhesive for installing ceramic tiles, porcelain, mosaics, granites, and natural stones onto interior and exterior floors and walls. It is suitable for use in permanent wet areas or submerged conditions. Classification complies with ANSI 118.4, ISO 13007 and EN 12004 class for C2TE. Cementitious Tile Adhesive (C) Improved (2) slip-resistant (T) extended open time (E).

- **Polymer Enhanced Bonding** The inclusion of polymer contents enhances both the high adhesion and the overall bonding strength of the product.
- **Extended Open Time** The adhesive is designed with an extended open time, allowing for more flexibility during the tiling process.

KEY FEATURES

- **High Adhesion Strength** This is a single part cementitious adhesive that provides high adhesion strength for secure installations.
- **Fungal Growth Resistance** The product offers excellent resistance to fungal growth, ensuring a cleaner and more durable finish.
- **Excellent Water Resistance** It features excellent water resistance, and its adhesion properties remain unaffected even under submerged conditions.
- **Slip Proof and Shock Resistant** The adhesive is designed to be slip proof and shock resistant, providing added stability and safety.
- **Excellent Adhesion with Porcelain Tiles** It is specifically formulated to provide excellent adhesion properties when used with porcelain tiles.
- **Thin Bed Bond Strength** The formula ensures excellent bond strength even when used in thin bed applications.
- **Heavy Traffic Recommendation** This adhesive is recommended for use in heavy traffic areas due to its robust performance.

PRODUCT BENEFITS



High-Bond Strength



Slip Proof



Hygienic Surface



Extended Open Time

PACKAGING

20 Kg Bag (72 bags per pallet)

TECHNICAL PROPERTIES

Properties	Value
Type	Powder
Colour	Grey and White
Theoretical coverage	5.5 to 6.5 m ² using 6 x 6 mm square notch trowel (Coverage provided is approximate and is for estimation. Actual coverage depends on the job site conditions, application methods, wastages, etc.)
Consistency of mix	Creamy

Properties	Value	
Density of the mix	1,560 kg/L	
Pot life on mix 35°C	2 hrs.	
Application temperature	from +5°C to +40°C	
Open time at 35°C	Approx. 30 minutes	
Adjustability time at 35°C	Approx. 30 minutes	
Ready for grouting	on walls after 4-8 hours on floors after 24 hours	
Set to light foot traffic	Light traffic areas after 24 hrs. Heavy traffic areas after 48 hrs.	
Ready for use	7 to 14 days depending on actual temperature and RH	
Tensile Adhesion Strength (EN 1348)		
Test	EN Requirements	Results
Normal condition	1.0 N/mm ²	1.56 N/mm ²
Heat Resistance	1.0 N/mm ²	1.2 N/mm ²
Water immersion	1.0 N/mm ²	1.39 N/mm ²
Freeze thaw	1.0 N/mm ²	1.26 N/mm ²
Compressive Strength -28 days	17.2 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.

APPLICATION AREAS

- Specially formulated for sensitive stones.
- Specially formulated for permanent wet areas.
- Interior and exterior tile fixing applications.
- Exterior facade tile claddings up to a height of 4.5m without any mechanical support.
- Recommended for vertical and horizontal tile installations
- Recommended for Swimming Pools, Fountains, Bathrooms, kitchens, etc.
- Recommended for Jacuzzi and steam rooms
- Recommended for ceramic tiles, glass mosaics, porcelain tiles, quartz stone, marble and stones.
- Recommended substrates are Concrete, cement renders, cement board, Silicate boards, primed Gypsum Board & MDF with support of priming.

APPLICATION METHOD

1. 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 shrink after tile installation. In mild weather, cementitious screeds must have cured for 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, should be considered for shading or cooling down with potable water.
- Newly applied cement screeds must not have a residual moisture content over 4%.
- Gypsum substrate and anhydrite screeds must be perfectly dry (maximum residual moisture 0.5%), sufficiently hard and free of dust. Substrates must be treated with SmartCare SBR Bonding Agent.

- All slabs must be plumb and true to within 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification AN-3.8" Requirements for Expansion Joints", or TCA Details EJ171 "Expansion Joints". Do not cover expansion joints with mortars. Cement Backer Board; follow TCA installation detail W244.

2. Mixing:

- It is recommended that only a full bag of 20 kg be mixed. SmartCare Ultra-Tile should be mixed by mechanical means. A single bag may be mixed using a slow-speed drill and spiral paddle or a forced action mechanical mixer.
- Place the mixing water into the mixing bucket and add SmartCare Ultra-Tile and mix for approximately 3-4 minutes until a smooth lump-free consistency is achieved.
- Use approximately 4 - 4.4 litres of clean potable water for a 20 kg bag. Recommended to hold (± 0.5 Ltr) of water as per site conditions and application.
- For better adhesion results, mix SmartCare Ultra-Tile with SmartCare SBR bonding agent (1 part liquid to 4 parts water).
- Allow the mix to stand for 5 minutes, and then re-stir before use.
- Note: In all cases, the powder must be added to the water.

3. Application:

- Apply mortar to the substrate with the flat side of the trowel, pressing firmly to work into the surface. Comb on additional mortar with the notched side.
- Tiles with lugs, grooves or an uneven back must initially be butter-coated with the adhesive, 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 opened for traffic for 48 hours.
- Movement joints should go right through the tile and adhesive bed to the substrate, and be kept free from dirt and adhesive droppings. Movement joints should not be less than 6 mm wide or greater than 10 mm.

4. Tile Grouting:

- Grouting can be carried out 24 hours after the completion of the tiling.

5. Cleaning:

- SmartCare Ultra-Tile 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 under wet conditions.

PRODUCT LIMITATIONS

- Do not commence applying Tile in temperatures above 40°C or below 5°C.
- Do not allow the product to skin before tiling.
- For other uses or the use of Tile over substrates/situations not mentioned in the technical brief, it is advised to contact the Asian Paints Berger office.
- Being cement-based, SmartCare Ultra-Tile FLX S1 is alkali in nature, which can cause dermatitis. Thus, while using SmartCare Ultra-Tile FLX S1, it's recommended that applicators must wear PVC or similar gloves and safety goggles.

STORAGE CONDITIONS

To maintain the quality of SmartCare Ultra-Tile, it must be stored in a dry store at a constant temperature of 25°C. The product should remain in its original, unopened bags until use, and it is important to avoid areas of high humidity as moisture will significantly reduce the shelf life.

SHELF LIFE

The product features a shelf life of 12 months from the date of manufacture. This duration is guaranteed only if the adhesive is kept in its original, sealed packaging and stored under the recommended temperature and dry conditions.

SAFETY PRECAUTIONS

- Always wear protective gloves, goggles, and clothing during mixing and application to prevent skin or eye irritation.
- Avoid direct contact with skin or eyes; in case of contact, wash the affected area with plenty of clean water.
- If inhaled, move the affected person to fresh air immediately and seek medical advice if discomfort persists.
- Ensure proper ventilation at the site of application to avoid inhalation of fumes.

CERTIFICATIONS

SmartCare Ultra Tile complies with ANSI 118.4, ISO 13007 and EN 12004, EN 1348.

DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory tests, industry practices, and practical application experience. However, actual site conditions may vary and are beyond the manufacturer's control. Asian Paints makes no warranties, expressed or implied, and shall not be liable for any loss or damage resulting from improper usage, handling, or non-compliance with the recommended guidelines. Users are advised to test the product for suitability before full-scale application.