

Premium Cladding Adhesive Data Sheet

Product Description

XCEL PCA is a high-performance, flexible adhesive specifically engineered for use with TIER Natural Stone panel and VISARI Brick systems, as well as other cladding applications on both walls and floors, internally and externally. Formulated with a blend of cement, precision-graded fillers, high-performance additives, and a high content of redispersible polymer powder, it offers extended working time for easier installation.

Fields of Application

XCEL PCA is ideal for adhering natural stone and brick slips to a wide range of substrates including sand/cement render, brickwork, blockwork, and is compatible with external wall insulation systems.

- ✓ Class A1 Fire Rated
- ✓ Suitable for stone, brick, and tile
- ✓ Just add water
- ✓ Excellent initial grab
- ✓ Bed thickness: 3–20mm up to 1m²
- ✓ Suitable for interior and exterior walling applications

Main Benefits

- ✓ Fast & Efficient Application
- ✓ Strong & Durable Bond
- ✓ Instant Grab – no slippage
- ✓ Extended work time: 2 hours
- ✓ Shower-Proof Bags
- ✓ Class A1 Fire Rated



Directions for Use:

Proper surface preparation is critical to ensure a strong, lasting bond. All substrates—whether concrete, masonry, sand/cement render, or part of an external wall insulation system—must be clean and free from loose particles, dust, grease, paint, laitance, and efflorescence. Thoroughly dampen the surface with clean water before application, but remove any standing water to avoid affecting adhesion.

To mix XCEL PCA, slowly add a 20kg bag to approximately 5.2 liters of clean water. Mix thoroughly for at least 3 minutes using a forced action or paddle mixer until a smooth, slump-free, and easily workable adhesive is achieved. Do not remix or re-wet once the pot life (approx. 2 hours at 20°C) has been exceeded. Always prepare only the amount of product that can be applied within the working time.

Using a notched or flat trowel, apply the adhesive to the substrate with firm pressure to ensure full contact. When installing TIER Natural Stone panels, especially large-format units, it is recommended to back-butter the panel for maximum adhesion and coverage. Once the mortar is applied, stone panels should be placed and adjusted within 25 minutes to ensure proper bonding before skinning occurs.

Technical Information:

Water required per bag: 5.2 litres per 20 kg

Working time: approx. 2 hours

Coverage: 5m² at 3mm depth

Minimum applied thickness: 3mm

Maximum applied thickness: 20mm

Set time: 16 hours

Properties of cured product:

Adhesion strength: >1 N/mm² after 28 days

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.



Precautions

Contains cement, which becomes alkaline when mixed with water and may irritate skin. Wear protective clothing and ensure good ventilation. Avoid creating dust during mixing. In case of eye contact, rinse thoroughly with clean water and seek medical advice if irritation persists.

Shelf Life and Storage

Store in a cool, dry place between 5–30°C in unopened bags, off the ground, and protected from drafts. When stored as directed and used within 8 months of the date on the bag, the product will maintain reducing agent activity and limit soluble chromium (VI) to ≤0.0002% (2ppm). Use beyond this period may increase the risk of allergic reaction.

Shelf life is 8 months from the manufacture date printed on the bag, when stored unopened under recommended conditions. Exposure to high temperatures or humidity may shorten shelf life.

Colour and Packaging Information

This product is packaged in 20 kg showerproof bags

Colors: Grey/Brown

Health, Safety and Environmental

Always use appropriate PPE when preparing, mixing, and applying. Wash hands before eating and keep materials out of reach of children and animals. Dispose of packaging and waste responsibly, following local regulations. For full safety information, refer to the product SDS at XcelPro.com