TECHNICAL DATA SHEET

CERAMAX® Flex

Flexible Cement Based Tile Adhesive

About the Product

CERAMAX® Flex is a high performance, flexible, cement based adhesive mortar for bonding tile, marble and granite, containing mineral fillers, cement and specially modified chemicals, with reduced slip property and extended open time.

Complies with EN 12004-1 standard as C2TES1 class.

C2: Improved cement based adhesive

T: Reduced slip property

E: Extended open time

S1: Flexible adhesive

Areas of Application

- Interior and exterior areas, horizontal and vertical surfaces
- Medium and large format ceramic, granite, marble, natural stone and mosaic applications
- Decorative brick applications
- Cement based surfaces exposed to high temperature differences
- Tile on tile applications
- Swimming pools, thermal pools and water tanks
- Cold storage areas (on floors and walls)
- Underfloor heating systems
- Terraces and balconies
- Areas exposed to heavy pedestrian and load traffic
- Gypsum board surfaces after being primed with a suitable primer

Advantages

- High adhesion performance
- Does not slip on vertical surfaces thanks to its thixotropic structure
- Provides ease of application with extended open time
- High stability and strength
- Resistant to deformations thanks to its flexible structure
- Resistant to expansion and shrinkage caused by temperature changes thanks to its flexible structure
- Resistant to vibrations
- Resistant to freeze-thaw cycles

Technical Specifications

General Information	
Material composition	Mineral fillers, cement, special chemical additives
Appearance	Grey powder
Density	~1.87 kg/L
Performance Data (EN 12004-2)	
Initial adhesion strength	≥ 1.0 N/mm^2
After water immersion	≥ 1.0 N/mm^2

After heat aging	≥ 1.0 N/mm²
After freeze-thaw	≥ 1.0 N/mm²
Open time (30 min)	≥ 0.5 N/mm²
Slip	≤ 0.5 mm
Flexibility	≥ 2.5 mm – S1 flexible
Application Data	
Application temperature	+5°C / +35°C
Service temperature	−20°C / +80°C
Mixing ratio	6.5 – 7 L water / 25 kg
Pot life	~3 hours
Open time	≥ 30 min
Adjustment time	~10–15 min
Grouting time	24 hours
Ready for service	Walls: 24 h / Floors: 48 h
Consumption	~5–6 kg/m²
Safety Data	
Reaction to fire (EN 13501-1)	A1
Hazardous substances	Refer to SDS

The figures stated above are valid at an ambient temperature of +23°C and 50% relative humidity. Higher temperatures shorten the time, while lower temperatures extend it.

Application Instructions

Surface Preparation

The application surface must be sound, dry, clean, dust free and load bearing. The surface must be cleaned from oil, grease, paint, rust, paraffin and similar residues that may reduce adhesion. Cracks and voids must be repaired at least 48 hours in advance with a suitable TAMCRETE® repair mortar. Highly absorbent surfaces should be moistened or primed. Application should not be carried out under risk of freezing, under direct sunlight, in strong wind or rainy conditions.

Mixing

Clean water is poured into a clean mixing container in the amount specified in the technical data table. CERAMAX® Flex powder is then gradually added while mixing with a mechanical mixer at a speed of 400–600 rpm until a homogeneous consistency is obtained. After allowing the mixture to rest for 3–5 minutes, it should be remixed for 1 minute and then becomes ready for use. No additional water should be added to the mortar once it has started to set.

Application

The prepared mortar is applied to the surface with a trowel and combed with a suitable notched trowel. Tiles should be placed within the open time and pressed. If a skin forms on the surface of the adhesive during application, the mortar must be scraped off and new mortar applied. Double-sided application is recommended for large format tiles.

Consumption

Tile size	Notch size	Consumption
30×30 cm	8 mm	~5–6 kg/m²
60×60 cm	10 mm	~6.5–7 kg/m²

60×120 cm	12 mm	~7–7.5 kg/m^2

Cleaning of Tools

All equipment used during application must be cleaned with water before it dries. Once hardened, the material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in the original, unopened packaging in a cool, dry place. Under proper storage conditions, the product has a shelf life of 12 months from the date of manufacture.

Safety Precautions

During application, suitable work clothing, protective gloves, goggles, and a mask should be worn in accordance with occupational health and safety requirements. Due to the irritant effects of the uncured material, the components must not come into contact with skin or eyes; in case of contact, rinse immediately with plenty of water and soap, and seek medical attention immediately in case of ingestion. Food products must not be kept in the areas where the material is applied. Store out of reach of children. Refer to the Safety Data Sheet for further information.

Liability

Our company is responsible only for the quality of the product. Any use of the product beyond the scope of written technical recommendations, including incorrect application or use under unsuitable conditions, is the sole responsibility of the user. For more detailed technical information, please refer to the product catalogue or contact our authorized representatives.

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