

Technical Datasheet

IZOZEN® FLEXPRO AK-10 (C2TES1)

High-performance, Flexible, Polymer-Modified Adhesive For All Tile Types, Even on Critical Substrates

Description

IZOZEN® FLEXPRO AK-10 is a high-performance, flexible, polymer-modified, cement-based tile adhesive with extended open time and no vertical slip. Provides high initial and final adhesion strength, moisture resistance and flexibility.

Certified according to EN 12004 and classified as type C2TES1 adhesive. CE marked.

Fields of application

IZOZEN® FLEXPRO AK-10 is suitable for fixing absorbent or non-absorbent wall and floor tiles (e.g. “grès porcellanato”), natural stone, decorative bricks, large-format tiles, etc. to a variety of substrates, especially where high adhesion, flexibility and moisture resistance are required (e.g. old tile layers, heated floors, gypsum boards, etc.). Suitable for indoor and outdoor use.

Chemical & Physical Analysis

Form:	Cementitious Powder
Colors:	Grey
Water demand:	30-33%
Application temperature:	from +5°C to +35°C
Application thickness:	up to 15 mm
Pot life:	at least 1 h
Open time:	at least 30 min
Slip:	≤ 0.5 mm
Wall grouting:	after 3-8 h
Floor grouting:	after 24 h
Adhesion strength after:	
• 28 days:	≥ 1.80 N/mm ²
• heating at +70°C:	≥ 1.60 N/mm ²
• immersion in water:	≥ 1.30 N/mm ²
• 25 freeze-thaw cycles:	≥ 1.40 N/mm ²
Service temperature:	from -30°C to +90°C
Deformability: (EN 12004-2)	> 2.5 mm

All measurements were conducted according to EN 12004-2.

Directions for use

1. SUBSTRATE PREPARATION

- The substrate must be clean, free of oil or grease, loose material, dust, etc.
- Remove all loose material and standing water from area to be applied.
- Dampening of the substrate before application is recommended.

2. APPLICATION PROCEDURES

IZOZEN® FLEXPRO AK-10 is gradually added to water under continuous stirring until a uniform paste is formed. A low-speed mixer is recommended for mixing. The mixture should be left to stand for approx. 5 minutes and then stirred again. The tile adhesive should be uniformly spread (“combed”) over the entire surface using a notched trowel. The tiles should be firmly fixed to the desired position. The applied mixture must be covered with tiles within 30 minutes to avoid “skin” formation, i.e. before the adhesive film starts setting.

Storage and Handling

- IZOZEN® FLEXPRO AK-10 store indoors in cool, dry conditions. Avoid direct sunlight and/or exposure to freezing.
- 06 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

ESTIMATING MATERIAL REQUIREMENTS

1.5-4.0 kg/m², depending on trowel notch size and substrate type.

Packaging

IZOZEN® FLEXPRO AK-10 is supplied in 20 kg and 25 kg paper bags and in 5 kg plastic bags.

Remarks

- Due to cement content, IZOZEN® FLEXPRO AK-10 reacts with moisture forming alkaline solutions, thus it is classified as irritant.
- Very porous surfaces such as aerated concrete, gypsum boards, chipboards, etc. must be primed first with IZOZEN® FLEXPRO LATEX.
- Please consult the directions for safe use and precautions written on the packaging before use.

IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product.