



## POLYFLEX 70 - FAST SETTING FLEXIBLE TILE ADHESIVE MORTAR – C2FTS1

### DESCRIPTION :

POLYFLEX 70 is a high-performance, fast-curing, cement-based, polymer-modified, flexible tile adhesive. It combines rapid strength development with high adhesion performance, low slip properties, and deformation capability (S1 class), making it ideal for fast-paced projects requiring flexibility and early commissioning. It is designed for professional use in demanding indoor and outdoor applications.

### ADVANTAGE:

- High bond strength
- Initial tensile adhesion.
- Fast setting.
- Rapid strength development.
- Reduced slip.
- Early grouting possibility.
- Ready for light foot traffic in approx. 3–4 hours.
- High early mechanical strength.
- Absorbs thermal and structural movements.
- Suitable for low absorption porcelain tiles.
- Ideal for urgent repair and refurbishment works.

### AREA OF USE :

- Interior and exterior applications.
- Fast-track renovation works.
- Commercial areas requiring early use.
- Shopping malls, airports, hospitals.
- Staircases and corridors.
- Large format ceramic and porcelain tiles.
- Heated screeds.

### SURFACE PREPARATION :

- Substrates must be sound, free from oil, grease, and sufficiently dry.
- Cementitious substrates must be cured.
- The plaster and weak particles that do not adhere to the surface well enough should be removed from the surface prior to the application.
- The damaged sections of the concrete, the fractures and static cracks on the concrete surface should be repaired with the POLYFLEX REPAIR mortar. The application of the POLYFLEX 70 should be started 3-4 days late.
- The surface should be primed with POLYFLEX UNI PRIMER depending on to absorbency of the substrate before application.
- To increase adhesion strength before application on gross concrete surfaces, the surface should be primed with POLYFLEX BRUT PRIMER.
- If they are dusty the back sides of the ceramic tiles should be washed with water.

### MIXTURE PREPARATION:

- Pour POLYFLEX 70 on 5 – 6 L of clean water slowly and mix to obtain a homogeneous paste free from lumps.
- A low-speed mixer is recommended to mix. Do not add any substance which is not mentioned in the instructions for the application.
- The prepared mortar is left to rest for 5 minutes so that it matures after which it is mixed for 1-2 more minutes and then it becomes ready for application.

### APPLICATION:

- The mortar is applied to the surface and its thickness is adjusted with the notched trowel according to the size of the ceramic and the smoothness and evenness of the application surface. As the size of the ceramic increases it is recommended to do a double-sided application.
- Care should be taken to ensure that the mortar does not form a film on the surface during application.
- Any adhesive that has formed a film on the surface should be scraped off and should not be reused.
- The tiles should then be placed onto the combed mortar surface with the help of a rubber hammer.
- POLYFLEX 70 sets quickly. Considering the application speed, the mortar should not be spread over a large area.
- Mortar should be applied on both application substrate and backside of tiles.
- The fresh mortar must be used within a maximum of 45 minutes. Mortar that has passed its expiration date must not be used under any circumstances.
- Consumption is 4 – 5 kg/m<sup>2</sup>

### AFTERCARE / POST-APPLICATION INSTRUCTIONS:

- Protect freshly installed tiles from rain, water exposure and frost for at least 24 hours.
- Avoid mechanical loads and heavy traffic until full curing is achieved.
- Light foot traffic is permitted after approximately 3–4 hour +23°C).
- Grouting can be carried out after 3–4 hours depending on ambient conditions.
- Lower temperatures may extend setting time; higher temperatures may shorten it.
- Ensure full curing before subjecting the surface to heavy loads or intensive use.
- For exterior applications, protect from direct sunlight and strong wind during installation and early curing.
- Do not wet the surface after application.



**PRECAUTIONS IN APPLICATION:**

- Surface condition: Ensure the substrate is structurally sound, clean, dry, and free from dust, grease, or loose particles.
- Ambient temperature: Do not apply at temperatures below 5°C or above 35°C.
- Extreme temperatures may affect adhesion and curing.
- Moisture: Avoid applying the adhesive on wet or damp surfaces unless the substrate is properly prepared.
- Mixing: Always add powder to water, not water to powder, to avoid lumps. Do not use more water than recommended.
- Open time: Apply tiles within the adhesive’s open time; exceeding this may reduce adhesion.
- Tile type: Check tile manufacturer recommendations, especially for natural stone or moisture-sensitive tiles.
- Protective gear: Wear gloves and goggles during mixing and application to prevent skin and eye irritation.
- Avoid contamination: Do not mix with other adhesives, chemicals, or additives unless explicitly recommended.

**PACKING:**

25 kg craft bags.

**STORAGE AND SHELF LIFE :**

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product’s shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

**SECURITY INFORMATION :**

Use protective clothes, gloves, glasses and mask compatible with Health and Safety regulations during the application. It should not contact skin and eyes. In case it contacts to skin and eyes, rinse it with water and if swallowed ask for medical help. Food and beverage should not be allowed in the application area. It should be stored at the reach out of the children. The Material Safety Data Sheet (MSDS) should be read for detailed information.

**TECHNICAL PROPERTIES:**

Appearance	Grey and White Powder	-
Pot Life	45 minutes	-
Application Temperature	Between +5°C and +35°C	-
Mixing Ratio	5 – 6 L water / 25 kg powder	-
Grouting	4 Hours	-
Set to light traffic	6 Hours	-
Consumption	Approx. 3 – 5 kg/m <sup>2</sup>	-

**PERFORMANCE**

Slip	≤ 0.5 mm	EN 1308
Early Tensile Adhesion (6 hours)	≥ 0.5 N/mm <sup>2</sup>	EN 1348
Tensile Adhesion Strength After Water Immersion	≥ 1 N/mm <sup>2</sup>	EN 1348
Tensile Adhesion Strength After Heat Aging	≥ 1 N/mm <sup>2</sup>	EN 1348
Tensile Adhesion Strength After FreezeThaw Cycles	≥ 1 N/mm <sup>2</sup>	EN 1348
Open Time Tensile Adhesive Strength (after 20 minutes)	≥ 0,5 N/mm <sup>2</sup>	EN 1348
Deformability	≥ 2.5 mm	EN 12002
Reaction to Fire	A1	EN 13501-1

Hereby technical values and product application instructions are obtained in the wake of tests conducted in environment of +23±2°C temperature with relative humidity of %50±5. Higher temperatures will shorten the time span, while lower temperatures will extend it.

**STANDARDS:**

EN 12004-1:2017, Class: C2FTS1  
 C: Cementitious 2: Improved F: Fast Setting  
 T: Reduced Slip S1: Deformable



**Head Office :** Building No.15 , Qasimlu Street 40, Shahidan Zargata Quarter 24, Zone 1, Sulaymaniyah 46001, Iraq

**Factory :** Tanjaro Industrial Area – Sulaymaniyah – Iraq