

# Flexbond HX

**Polymer modified adhesive with no vertical slip and extended open time.**

## Description

**Flexbond HX** is a polymer-modified, cement-based tile adhesive. It provides high initial and final adhesive strength and resistance to moisture. It is qualified as absolutely non-slip (zero slipping of the tile) and possesses increased open time.

It is classified as type C2 TE adhesive according to EN 12004.

## Fields of application

**Flexbond HX** is suitable for fixing ceramic tiles on walls or floors on surfaces made of concrete, brickwork, plaster, wood floors, old tile layers, swimming pools etc., indoors or outdoors. It can be used for fixing granite tiles and non-absorptive wall or floor tiles on various substrates such as concrete, brickwork, plaster etc. indoors.

## Technical data

Form	cementitious mortar
Colour	grey, white
Water demand	5.75-6.50 l/25kg bag
Application temperature	from +5°C to +35°C
Application thickness	up to 20 mm
Pot life	at least 60 mins
Open time	at least 30 min
Minor adjustments open time	at least 30 min
Wall grouting	after 3-8 h
Floor grouting	after 24 h
Adhesion strength after	
• 28 days:	≥ 1.10 MPa

- Heat ageing in +70°C, 28 days ≥ 1.10 MPa
- immersion in water, 28 days ≥ 1.10 MPa
- Freeze-thaw cycles, 28 days ≥ 1.10 MPa

Slip Resistance 0.4 mm

Service temperature: from -15°C to +60°C

All measurements were conducted according to EN 12004-2.

## Direction to use

### Surface Preparation

The surface to be overlaid must be clean, free of dust, grease, paint, loose material etc. Dampening of the substrate before application is recommended.

### Product Preparation

Mix **Flexbond HX** in the proportion of 5 to 6 liters of clean cool water per 25 kg bag. An electric mixer with low rotation speed (< 500 rpm) can be used. Mix until a uniform lump free paste is obtained. Let the paste rest for a few minutes before starting the application.

### Product Application

The mixture should be left about 10 minutes to settle and should be stirred slightly again. The tile adhesive should be spread ("combed") on the substrate using a notched trowel, in order to be uniformly applied on the whole surface. The tiles should be fixed by pressing them in the desired position.

The applied mixture must be covered with tiles within 30 minutes in order to avoid "skin" formation, i.e. before the adhesive film starts setting.



## Coverage

3.2–4.3 m<sup>2</sup>/25kg bag, based on the application thickness, type of application, type of substrate and the size and type of tile.

## Elastification

For tiling on unstable substrates subject to vibrations or contraction-expansion effects, such as gypsum boards, chipboards, in-floor heating floors, terraces, balconies etc. it is necessary that the tile adhesive be elastified with the addition of 5-10 kg of StrucoBond SBR to 25 kg of **Flexbond HX** plus a quantity of water depending on the desired workability

## Precautions

Apply **Flexbond HX** on the substrate by areas of around 1m<sup>2</sup> each, which can be tiled within a maximum of 20 minutes from application time at standard conditions. After that time, an outer skin may form thus preventing the tile from adhering properly to **FlexBond HX**. Adjustments to the tiles should only be made during its open time. It is recommended to leave a minimum width of 2 mm around the tiles (or as designed).

Grouting the tile joints should only be done at least 24 hours after tiling,

## Packaging

**Flexbond HX** is available in 25kg HDPE bags

## Shelf life & storage

12 months from production date if stored in original, unopened packaging, in temperature between +5°C and +35°C. Protect from direct sun exposure and frost.

## Remarks

- Very porous surfaces such as aerated concrete, gypsum boards, chipboards etc. must be primed first with an acrylic primer

## Health & safety

**Flexbond HX** contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.

For further information, refer to the Material Safety Data sheet.

## Notes

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