

DESCRIPTION

FLEXBOND is a polymer improved cementitious adhesive (C2) with extended open time (E), slip resistant (T) and deformable (S1), classified as C2 TE S1.

Specially formulated to have enhanced properties of adhesion and flexibility, the advanced slump resistance properties make FLEXBOND ideal for fixing large format wall tiles.

FLEXBOND is a multipurpose adhesive for all ceramic coverings, glass mosaic, porcelain and non-moisture sensitive natural stones.



FEATURES & BENEFITS

- Meets the classification requirements for C2 TE S1 adhesives according to EN 12004 and ANSI A118.4.
- Non-sag, no need for battens and spacers, therefore easy and quick application
- Flexible, compensates changes in temperature and elongations of the substrates
- Freeze thaw resistance
- Ideal for swimming pools and wet areas
- For floors and walls, internal and external applications
- Ideal for all tile types and nature stones.
- Ready to use, just mix with water

AREAS OF APPLICATION

- For laying non-vitrified tiles, vitrified tiles, fully vitrified tiles, porcelain mosaic, glass mosaic, glass tiles, brick tiles, terracotta, artificial and non-staining natural stones.
- In swimming pools, pool surrounds, wet rooms and cold storage depots.
- On cementitious screeds, ground anhydrite and/or gypsum based floated screeds, precast concrete elements, aerated concrete, heated screeds, plasterboards, gypsum fiber boards, dry screeds, insulation boards, plater slabs etc.

FLEXBOND can be used directly on the following substrates:

- Concrete & cementitious based screeds, dry and cured for 28 days
- Stone & brick walls.
- Cementitious plaster and renders, sufficiently dry and cured.

TYPICAL PROPERTIES

WORKING PROPERTIES (at 23°C)

Appearance	Powder
Color	Grey or white
Composition	Cement, sand and additives
Storage and shelf life	12 months in a dry place in original sealed packaging, testing every 3 months for soundness
Water mixing ratio	6-6.5 Liters of water per 25 Kg
pH of paste	≈ 12 ± 0.5
Pot life	2-3 hours at standard condition (Temp: 21-25°C & Relative humidity: 50±5 %)
Open time	30 minutes at standard condition
Time to floor light foot traffic	24 hours
Floor grouting	24 hours
Wall grouting	6 hours
Application temperature	From 5°C to 35°C
Slip resistance	Excellent



PERFORMANCE PROPERTIES

FLEXBOND was tested according to EN 12004 & ANSI A118.4 standards in standard conditions.

TEST	TEST METHOD	SPECIFICATION	RESULTS
Determination of open time by tensile adhesion strength.	EN 12004 (8.1) & ANSI A118.4	≥ 75psi (0.5MPa) at 30 minutes.	Complies with standards values
Determination of slip or sag on vertical surfaces	EN 12004 (8.2) & ANSI A118.4	≤ 0.5 mm	
Determination of Tensile adhesion strength for cementitious adhesives	EN 12004 (8.3)	≥ 150 psi (1 N/mm2)	
Shear strength to ceramic tile (glazed wall tile)	ANSI A118.4	≥ 300psi (2.07MPa)	
Deformable adhesive (S1): transverse deformation	EN 12004 (8.6)	≥ 2.5 mm and < 5 mm	

Note: the above performance properties are based on controlled laboratory conditions. However, there may be some variation depending on the ambient weather and site conditions.



METHOD OF APPLICATION

SURFACE PREPARATION

Surfaces must be sound, clean, dry and free from oil, grease, dust and other loose material, and should not be subject to movement. New concrete slabs shall be damp cured and 28 days old before application.

MIXING

FLEXBOND should be added slowly to clean water at normal temperature approx. 6-6.5 liters per 25 kg bag, stirring continuously to achieve a creamy lump free consistency. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. The adhesive should be used within its pot life of 2 hours(23°C). No water should be added after the original mixing. Any of the mixture not used within its pot life should be disposed.

APPLICATION

Apply mixed adhesive (FLEXBOND) to the substrate with the flat side of the trowel, pressing firmly to work into surface. Spread only as much adhesive as can be tiled before the product skins over. Open time may vary depending on jobsite conditions. Back butter large tiles to provide full bedding and firm support. Place tiles into the adhesive and beat in using a beating block and rubber mallet to adjust level.

Before the adhesive sets, clean excessive adhesive from between joints using a damp cloth. Tools and equipment should be cleaned with water before the adhesive sets on them.

Tiles should be left undisturbed for around 24 hours at 20°C, or longer if the temperature is lower.

Apply grout after the adhesive has set



PACKAGING / COLORS AVAILABLE

25 kg bag / White and grey



HEALTH & SAFETY PRECAUTIONS

This product contains cement, and contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice. If mistakenly ingested, drink plenty of clean water and seek medical advice.



TECHNICAL SERVICE

Application of the FLEXBOND should be done according to the procedure mentioned in this technical data sheet. IKAN INC will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non- recommended purpose. Please contact IKAN INC. technical team for more details on application of FLEXBOND for any purpose other than mentioned above or on surfaces with other special construction additives.



DISCLAIMER

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labor involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature..