



# GLASSBOND

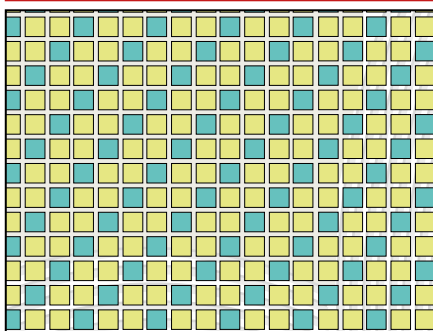
HIGH-ADHESION, CEMENT-BASED, SPECIAL ADHESIVE FOR APPLICATION AND GROUTING OF GLASS MOSAIC, CERAMIC MOSAIC AND MARBLE TILES ON INTERNAL AND EXTERNAL FLOORS AND LINING

GRANTS *LEED* CREDITS

CHARACTERISTICS	ENVIRONMENTAL	METHOD OF USE		PRECAUTIONS
A				
ONE-COMPONENT	ECO GREEN	RECYCLABLE	MIX MECHANICALLY	APPLY BY TOOTHED SPATULA
				STORAGE: IN A DRY PLACE

## PROBLEM

### HOW TO LAY AND FILL GLASS MOSAIC AND THIN TILES



To lay thin ceramic tiles and glass mosaic you need an adhesive able to guarantee high adhesion, which is thixotropic and makes laying and grouting easier.

## SOLUTION

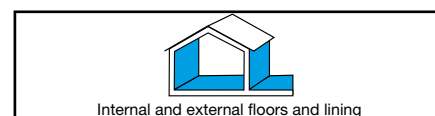
GLASSBOND is a pre-mixed powder adhesive containing special cements, powdered resins, selected quartz sands and special additives which give the product an optimal adhesive power and workability even on completely non-absorbent tiles. It can be used as an adhesive-grouting product instead of normal cement grouts.



## APPLICATION FIELDS

GLASSBOND is particularly suitable for bonding porcelain stoneware, non-absorbent ceramic tiles and mosaic tiles **on new floors and walls**, for **both interior and exterior applications**.

It can be used on any cement substrate indoors or outdoors as an adhesive and filler. It is also suitable for laying tiles on heated floors. It is also suitable for laying **on heated floors**.



## ADVANTAGES

- High workability.
- High adhesion.
- Very versatile to use

## METHOD OF USE

### • SURFACE PREPARATION

GLASSBOND can be applied on all the traditional supports as long as they are flat, solid and free of loose or crumbling parts, greases, oils, dust and dirt in general. Plaster supports or anhydrite screeds must be previously treated with ISOLFIX G. When laying tiles on non-absorbent surfaces such as OSMOFLEX AB, OSMOLASTIC AB, in swimming pools or on ceramic tiles, mix the product with ELASTOBOND diluted 1:3 with water.

### • MIX PREPARATION

GLASSBOND is prepared by mixing the product with right quantity clean water (see table). Pour the powder product into the water and mix with a drill on low speed until a uniform paste is obtained with no lumps (1).

Leave the paste to rest for 3 minutes and mix again. The mix stays in workable condition for about 6 hours depending on weather conditions.

We recommend mixing by hand when using the product to grout tiles.

### • APPLICATION

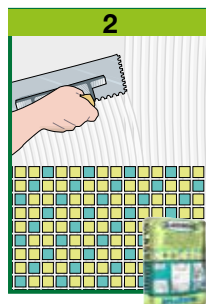
GLASSBOND is normally applied with a toothed spatula with teeth from 3 to 7 mm. We recommend spreading a smoothing coat of the product with the smooth side of the spatula and then immediately afterwards applying the coat with the toothed spatula (2). For external applications we recommend also coating the back of the tiles (3) to prevent cavities forming, which can cause infiltrations and damage caused by rainwater following freezing and thawing cycles. The tiles should

be applied using a pressure which is sufficient to guarantee the total contact of the adhesive with the back of the tile, allowing for the pot life, in other words before the surface "skin" forms. Use a normal rubber spatula for grouting and filling and a damp sponge for cleaning.

### • CONSUMPTION

2.5 Kg/m<sup>2</sup> with a 4x4 mm toothed spatula. Coverage when used as a filler: 0.4 kg/m<sup>2</sup> x m of grouting space with 2x2 mm tesserae.

(See following)



# TECHNICAL CHARACTERISTICS

		<b>GLASSBOND</b>	
	Standard	Powder	
		White	Grey
Appearance			
Colour		White	Grey
Apparent density	<b>EN 1015-6</b>	1.30 ± 0.05 kg/L	1.30 ± 0.05 kg/L
Water ratio		25% ± 1%	25% ± 1%
Shelf life in original packaging (dry stored)		12 months	
<b>Mix characteristics and workability</b>			
Density of mix		1.60 ± 0.05 kg/L	
Mix pH		12-14	
Pot life (*)		approx 6 hours	
Application temperature		+5°C ÷ +35°C	
Open time (*)		30 minutes	
Adjustability time (*)		40 minutes	
Waiting time - before foot traffic use (*)		24 hours	
Waiting time - before grouting (*)		24 hours	
Performance characteristics	Standard	Minimum requirement	Product performance
<b>Class and type</b>	<b>EN 12004</b>		<b>C2TE</b>
<b>Adhesion strength</b>	<b>EN 1348 P8.2</b>	≥1.00 N/mm <sup>2</sup>	1.40 N/mm <sup>2</sup>
<b>Adhesion strength - after immersion in water</b>	<b>EN 1348 P8.3</b>	≥1.00 N/mm <sup>2</sup>	1.20 N/mm <sup>2</sup>
<b>Adhesion strength - after heat</b>	<b>EN 1348 P8.4</b>	≥1.00 N/mm <sup>2</sup>	1.40 N/mm <sup>2</sup>
<b>Adhesion strength - after thaw-frost cycles</b>	<b>EN 1348 P8.5</b>	≥1.00 N/mm <sup>2</sup>	1.00 N/mm <sup>2</sup>
<b>Open time: adhesion strenght - after 30'</b>	<b>EN 1346</b>	≥0.50 N/mm <sup>2</sup>	0.80 N/mm <sup>2</sup>
<b>Sliding</b>	<b>EN 1308</b>	≤0.5 mm	<0.5 mm
Thermal resistance - Operating temperature			-30°C ÷ +90°C
<b>Fire reaction</b>	<b>EN 13501-1</b>		E CWFT P4.4.3
<b>Hazardous substances</b>	<b>EN 12004</b>		in accordance to ZA.1 note

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency. (\*) The times indicated will be longer or shorter as the temperature drops or rises.

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Pursuant to European standard EN 12004:2007+A1:2012 - General principles for the use of products and systems.

(See previous)

## • PRECAUTIONS

- Don't use on surfaces made of metal, rubber, vinyl floors, wood, linoleum or PVC.
- In case of marble or composite stones particularly sensitive to water, we suggest you to consult our technical office.
- If the back of the tiles are very dusty, it is recommended to clean them by dipping them quickly in water.
- In adverse weather conditions (high temperatures, wind) the normal open time may be shorter. Therefore you must make sure the adhesive has not formed a "skin" before laying the tile, which would compromise adhesion. If a "skin" has formed on the surface, simply refresh the adhesive by crossing again with the toothed trowel without wetting.

- In high temperatures wetting the foundation helps to increase the open time.
- Never use with temperatures below +5°C and high than +35°C. Protect tiles from rain, frost and high temperature for 24 hours at least.
- In hot weather avoid laying the adhesive on large surface areas.
- Glue uniformly.
- Damp surfaces can slow the setting of the product.
- Do not use for overlaying existing flooring.
- Do not use the product in thicknesses of more than 6-7 mm.
- Clean the tools with water and the covered surfaces with a damp cloth immediately after use.

- Do not expose the material to direct sunlight in hot weather.
- Store the original closed packaging in a dry place.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

## PACKAGING

25-kg Sacks

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

 <b>Construction Systems and Products</b> Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67 T. +39 045 8546201 - F. +39 045 518390	Internet: <a href="http://www.index-spa.com">www.index-spa.com</a> Informazioni Tecniche Commerciali <a href="mailto:tecom@indexspa.it">tecom@indexspa.it</a> Amministrazione e Segreteria <a href="mailto:index@indexspa.it">index@indexspa.it</a> Index Export Dept. <a href="mailto:index.export@indexspa.it">index.export@indexspa.it</a>		TOTAL QUALITY <b>index</b> 	Environmental Management Systems <b>index</b> 		
			UNI EN ISO <b>9001</b>	UNI EN ISO <b>14001</b>	index socio del GBC Italia	