



# ECOFLEXCOL

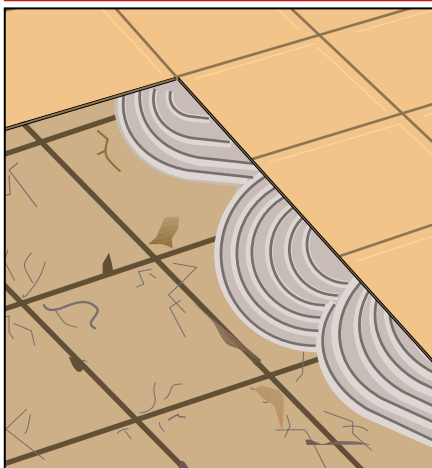
IMPROVED-ADHESION, POLYMER-MODIFIED CEMENT ADHESIVE FOR TILES, FOR LAYING STONEWARE, PORCELAIN STONEWARE AND STABLE NATURAL STONES, ON INTERIOR AND EXTERIOR FLOORS AND WALLS, ALSO WHEN OVERLAYING EXISTING TILES

GRANTS *LEED* CREDITS

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

## PROBLEM

**APPLICATION OF LARGE TILES ABSORBING LESS THAN 0.5%, EVEN WHEN OVERLAID**



## SOLUTION

Renovating floors entails substantial costs that can be avoided with a product used for sticking the new floor straight onto the existing one. Also, foundations subject to dimensional variations such as heated floors or floors under substantial strain need a product that can withstand these movements.

**ECOFLEXCol** is a one-component cement adhesive for tiles, with special powder resin additives that make the product considerably adhesive. Contains recycled raw material and can be recycled as aggregate at the end of its service life.

## APPLICATION FIELDS

**ECOFLEXCol** is used both **outdoors and indoors** for laying monocotture, porcelain stoneware, clinker, stable natural stone and cotto for **new floors or walls or overlaying on existing ones**, also in large formats. **ECOFLEXCol can be used on foundations subject to dimensional variations, heated floors, (hardened) concrete surfaces, cement foam and plasterboard panels.**



Internal and external floors and lining



## ADVANTAGES

- **ECOFLEXCol** allows laying simply and quickly by superimposing onto existing floors.
- It offers a strong flexible hold, also with totally non-absorbent porcelain stoneware.

## METHOD OF USE

### • SURFACE PREPARATION

The foundation onto which the adhesive is applied, must be clean and free from dust, oil and form-releasing greases.

For laying on gypsum, anhydrite and quick-drying screeds, insulating treatment with ISOLFIX G is required.

For superimposing on glazed or very smooth ceramics, prior bush hammering is required to improve adhesion, and washing with a basic detergent.

### • MIX PREPARATION

**ECOFLEXCol** 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.

### • APPLICATION

Apply the product obtained using toothed trowels according to the type of tile (2). In

external environments subject to frost, spread a thin layer of adhesive onto the back of the tile too, to prevent water penetrating into the gaps and freezing, which would cause detachment (3).

### • CONSUMPTION

From 2 to 5 kg/m<sup>2</sup> based on the size of the tiles.

### • 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.

(See following)



# TECHNICAL CHARACTERISTICS

		ECOFLEXcol	
	Standard	Powder	
		White	Grey
Appearance			
Colour		White	Grey
Apparent density	EN 1015-6	1.30 ± 0.05 kg/L	1.30 ± 0.05 kg/L
Water ratio		29% ± 1% (7,25 L)	29% ± 1% (7,25 L)
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		approx 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>	EN 12004		<b>C2TE</b>
<b>Adhesion strength</b>	EN 1348 P8.2	≥1.00 N/mm <sup>2</sup>	1.80 N/mm <sup>2</sup>
<b>Adhesion strength - after immersion in water</b>	EN 1348 P8.3	≥1.00 N/mm <sup>2</sup>	1.70 N/mm <sup>2</sup>
<b>Adhesion strength - after heat</b>	EN 1348 P8.4	≥1.00 N/mm <sup>2</sup>	1.70 N/mm <sup>2</sup>
<b>Adhesion strength - after thaw-frost cycles</b>	EN 1348 P8.5	≥1.00 N/mm <sup>2</sup>	1.50 N/mm <sup>2</sup>
<b>Open time: adhesion strenght - after 30'</b>	EN 1346	≥0.50 N/mm <sup>2</sup>	1.20 N/mm <sup>2</sup>
<b>Sliding</b>	EN 1308	<0.5 mm	<0.5 mm
Thermal resistance - Operating temperature			-30°C ÷ +90°C
<b>Fire reaction</b>	EN 13501-1		A2 CWFT P4.4.3
<b>Hazardous substances</b>	EN 12004		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)

- 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.
- When overlaying, the surfaces must be washed well with water and caustic soda (9:1).
- 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.

## PACKAGING

25-kg Sacks

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

• 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 •

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