



USE FOR SETTING QUARRY, CERAMIC, MOSAIC AND MOISTURE-INSENSITIVE STONE TILE ALSO SETS PORCELAIN TILE OVER ABSORBENT SURFACES USE FOR INTERIOR WALLS, FLOORS, AND COUNTERTOPS USE TO INSTALL TILE IN TUB SURROUND APPLICATIONS EASY TO USE AND APPLY



### PRODUCT DESCRIPTION

DCI 600 Eco is a white, non-flammable, ready-to-use dispersion adhesive used for interior installations of glass mosaic, ceramic tile, and non-moisture sensitive natural stone on walls. DCI 600 Eco is a D1TE class dispersion (D), normal (1), non-slip (T), extended open time (E) adhesive. DCI 600 Eco can be used on walls and floors for thin bed installations of tiles and stone material.

### FIELD OF APPLICATION

- For interior use
- For installation of ceramic tiles, natural stone, and glass mosaic
- Can be used for tiles up to 45 cm (of longest side)
- For installation of polystyrene boards

### SUITABLE SUBSTRATES

- Concrete
- Cement Mortar Bed
- Cement Backer Board
- Gypsum Wallboard
- Cement Plaster
- Gypsum Underlayments
- Gypsum Plaster
- Polystyrene Backer Board
- Exterior Glue Plywood
- Existing Ceramic Tile and Stone

### LIMITATIONS

- Can not be used over wallpaper.
- Can not be used to install non-absorption tiles (i.e., impervious porcelain tile) over non-absorbent substrates as this limits its ability to cure. The adhesive cures through evaporation of its water content.
- Not to be used for tiles bigger than 45 cm.
- Not to be used at temperatures below 8°C.
- Not to be used for exterior application.
- Not to be used in areas subject to constant water exposure, immersion, or hydrostatic pressure.
- Not to be used in commercial showers, steam rooms, fountains, or submerged applications. Always leave an expansion joint, especially if substrates are subject to flexing or movement.
- Not to be used on a metal substrate.
- Not to be used as part of a waterproofing system.
- Marble and stone tiles may be sensitive to discoloration.
- Protect from the frost.
- The product is not replacements for waterproofing materials. When a waterproofing material is required, use a Waterproofing product.

## **APPLICATION PROCEDURE**

### **a) Preparation of the support**

The substrates must be cured and sufficiently dry, mechanically strong, free from loose particles, grease, oils, paint, wax, etc. The cement substrates must not be subject to shrinkage after installing the tiles. During spring and summer, renders must be cured for at least one week for every centimeter of thickness, and cement screeds must be cured for at least 28 days unless they have been made with DCI special binders for screeds such as Screed 80, Level S10, or with Level S30. Gypsum substrates and anhydrite screeds must be perfectly dry (max. residual moisture 0.5%), sufficiently hard, and dust-free. They must be treated with DCI Grip Primer or Beton Contact, while areas subject to high humidity must be treated with Tile Adhesive Primer. It is not recommended to apply adhesive on substrates until hydraulic shrinkage is complete and the substrate has residual humidity lower than 4%

### **b) Preparing the product**

DCI 600 Eco is ready to use the product.

### **c) Applying the product**

The adhesive is ready to be used. Select an appropriate tool depending on the size of tiles to be installed:

- 6 mm v-notch trowel for mosaics up to 2.5 x 2.5 cm
- 6 x 6 mm or 9 x 10 mm square-notch trowel for larger tile sizes

Clean the substrate using a damp sponge or towel. Apply adhesive to substrate with the flat side of the trowel into the substrate. After this comb the adhesive with the notched side of the trowel, removing the excess product. Spread only as much product as can be tiled while adhesive is wet and tacky, approximately 30 minutes. Press the tiles into the adhesive, and align. Beat or twist all tiles until fully bedded. Check work regularly for full contact between tile back and adhesive.

### **d) Installing the tiles**

It is unnecessary to wet the tiles before installation; however, the backs are very dusty, they should be wiped in clean water. The tiles are installed under firm pressure to ensure good contact with the adhesive. DCI 600 Eco open time in normal temperature and humidity is 30 minutes; unfavorable weather conditions like strong sun, high temperature, drying wind, or a high absorbent substrate may shorten this open time, in some cases to just a few minutes. Due to this reason, there must be constant controls to check if the product has formed a skin on the surface or is still fresh to the touch. If a surface skin has formed, the adhesive should be retroweling. It is not suggested to wet the surface of the adhesive when it has formed a skin because a non-adhesive film will be formed instead of dissolving the skin. The adjustment of the tiles, if necessary, should be carried out within 60 minutes following installation, after which time adjustment will become problematic.

### **e) Applying the grout**

The grout installation can be done after a minimum of 24 hours curing time at 23°C and 50% relative humidity for walls and after a minimum of 24 hours curing time at 23°C and 50% relative humidity for floors. Conditions may change the setting and curing time significantly.



## COVERAGE / CONSUMPTION

Approximately 3 kg/m<sup>2</sup> with 6 mm notched trowel

## PACKAGING

DCI 600 Eco is supplied in:

- 25 kg plastic bucket.
- 5 kg plastic bucket.

## SHELF LIFE

Original sealed packaging of this product is guaranteed to be of first quality for 24 months if stored in a dry area. In places with high humidity, the shelf life of the bagged product will be reduced.

## SAFETY INSTRUCTION

DCI 600 Eco is not considered dangerous according to the European regulation regarding the classification of mixtures. It is suggested to wear protective clothing and take the usual precautions taken to handle chemicals. For further information about the safe use of our product, please refer to the latest version of our Material Safety Data Sheet. **PRODUCT FOR PROFESSIONAL USE.**

## WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...

## TECHNICAL DATA

Product identity	
Consistency:	pasty
Color:	White
Bulk density (kg/m <sup>3</sup> ):	1650
Dry solids content (%):	80
Classification:	EN 12004
Application data (at +23°C and 50% R.H.)	
Mix ratio:	Ready to use
Consistency of mix:	very pasty
pH of mix:	12
Application temperature:	+5°C to +40°C
Open time (according to EN 1346):	>30 minutes
Slip:	0.2mm
Adjustability time:	approx. 60 minutes
Final performances	
Adhesion strength according to EN 1348 (N/mm <sup>2</sup> )	
- Initial adhesion strength (after 28 days):	1.56
- Adhesion strength after heat:	0.65
- Adhesion strength after water immersion:	0.59
- Adhesion strength after freeze-thaw cycles:	0.58
Temperature resistance after final cure:	from -20°C to +60°C



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