

# PROFESSIONAL Resinous tile adhesive

## PROPERTIES

Cementitious, high performance white adhesive for ceramic tiles, fortified with acrylic resins, and minimal vertical slip. Distinguished for its high initial and final bonding strengths, as it offers strong adhesion. After its final curing, it is resistant to moisture and frost. Classified C2E per EN 12004. (MIRTEC/Cert. No. 3353).

## APPLICATIONS

PROFESSIONAL is suitable for small and large size tile installations on floor cement screeds and plastered walls, both indoors and out.

Adding DUROSTICK ACRYLIC EMULSION in the mixing water, at a ratio of 1:1, further enhances its characteristics so as to meet the requirements of S1 class (deformable adhesive) per EN 12002.

The improved (as per its flexibility) adhesive, is suitable for non absorbent substrates, subjected to intense expansions and contractions, as well as for outdoor spaces that are exposed to adverse weather conditions.

The adhesive is suitable for every type and size tile.

## USE

### 1. Surface preparation

The application surface has to be sound, clean, free of loose materials, dust, paint, grease and oils.

The surface has to be soaked before the application. It is necessary to prime all absorbent substrates and aircrete, using DUROSTICK ACRYLIC EMULSION or D-20, at a mixing ratio of 1:1 with water.

It is necessary to prime all drywall us-

ing the DUROSTICK micromolar stabilizer, AQUAFIX or SOLVENT BASED PRIMER. Lightweight or else, unstable cement screeds, must necessarily be primed with DUROSTICK ACRYLIC EMULSION or D-20 at a ratio of 1 part additive to 2 parts water or 1 part DUROMAX to 5 parts water.

Follow all balcony and terrace applications by coating the substrate with HYDROSTOP FLOOR, at 2-3 successive, crosswise layers to ensure the waterproofing of the substrate.

### 2. Application

Empty the adhesive into a clean container with cool water at a ratio of 2 parts water to 5 parts mortar (6.5-7.0lt water to 25kg mortar) and mix with a low rpm electric mixer until a lump free, homogeneous mass is created. Allow the mixture to mature for 5-10 minutes. During use mix periodically, without adding extra water.

Apply the adhesive using a notched trowel, and spread on the substrate. Then, coat as much surface as is required to work for the next 15-30 minutes (depending on weather conditions), thus avoiding skin formation. Finally, install the tiles in the selected position by tapping softly with a rubber mallet.

## CONSUMPTION

3-5kg/m<sup>2</sup>, depending on the size of the notch of the trowel, the smoothness of the substrate and the dimensions of the tiles.

## CLEANING

Clean all tools with water, immediately after use.

**NOTE:** On outdoor surfaces, it is highly recommended to create expansion joints every 16-20m<sup>2</sup>. Prime the expansion joints with PRIMER-PU, to improve grip, and seal them with the polyurethane sealant, DUROFLEX-PU. Similarly, seal all the joints (5-8mm) at the junction of the tiles and vertical surfaces throughout the perimeter. Alternatively the application of DS-POLYMER, in 32 colors (same with the grout colors of DUROSTICK), ensures sealing without cracking at the junction of the tiles with the skirting and above it as well.



## TECHNICAL SPECIFICATIONS (Measurement conditions 23 °C and 50% R.H.)

Form - Color	Cementitious mortar - White
Toxic	No
Bulk density of dry mortar	1.35±0.05 kg/lt
Water requirement	6.5 lt water per 25 kg mortar
Application temperature	From +5 °C to +35 °C
Temperature resistance	From -35 °C to +90 °C
Pot life	5 hours
Application thickness	Up to 10 mm
Open time per EN 1346	30 minutes
Time for minor adjustments	25 minutes
Grouting	After 3-6 hours on wall; after 24 hours on floor
Foot traffic	After 24 hours
Delivery to use	After 10-14 days

## MECHANICAL STRENGTHS

Strength after 28 days, per EN 196-1, in:

- flexion 5.05±0.70 N/mm<sup>2</sup>
- compression 17.10±1.00 N/mm<sup>2</sup>

Adhesion strength, per EN 1348, after:

- 28 days 1.30 N/mm<sup>2</sup>
- Thermal ageing at +70 °C 1.15 N/mm<sup>2</sup>
- Water immersion for 21 days 1.20 N/mm<sup>2</sup>
- 25 freeze - thaw cycles 1.20 N/mm<sup>2</sup>

The experimental measurements were performed per EN 12004, in the Chemical Laboratory of DUROSTICK and were confirmed by the measurements of initial type from MIRTEC (Cert. no: 3353). The following instrumentation was used:

- Flexion-compression: CONTROLS MCCC66 • Detachment: BRAIVE DYNATEST
- NOTE: The product exceeds on average the statutory requirements for C2 adhesive by 20%.

## STORAGE

Store in factory sealed packages, in dry and shaded places for a minimum of 12 months after production date.

## SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product's package or the Material Safety Data Sheet.

## PACKAGING

Paper bag of 25kg on 1,500kg pallet