



# C2TES1

in accordance with EN 12004

## Highly flexible gel fibre reinforced adhesive SUPERFLEX GEL



### USE

SUPERFLEX adhesive with increased number of reinforcing fibres and the use of gel technology has a unique binding capacity of water in adhesive mortar and significantly improves flexibility and bonding strength. The adhesive is able to obtain optimum mortar consistency suitable for individual needs of the user, including semi-liquid consistency. Intended for effective bonding of small and large format wall and floor tiles made of ceramic, glaze, terracotta, clinker, gres, mosaic, terrazzo and cement, tiles made of natural stone (after previous checking the colour fastness) and recons in small and large formats. For each typical and requiring background, indoor and outdoor, including balconies and terraces, heated floors, kitchens, bathrooms, swimming pools, façades and circulation paths.

### RECOMMENDED BACKGROUNDS

Concrete, renders, stucco, gypsum plasters, plasterboards, cement and anhydrite screeds (incl. heated), rigid, wood and wood-based floors (incl. OSB), and old tiled finishes as well. The adhesive is also applicable on a raw surface made of bricks, ACC, hollow masonry units and other types of ceramic and sand-lime materials. The adhesive has a perfect adhesion to all waterproof membranes in the systems for tiles (TS).

### PREPARING THE BACKGROUND

The background for tiles shall be stable, even, load-bearing, dry, free of dust, dirt, lime, oil, fat, wax and residues of oils and emulsions. Old, chalking and dusting bases of considerable water absorption shall be primed with TYTAN primer for absorptive surfaces. The backgrounds shall be adequately seasoned: concrete surfaces shall have at least 3 month-old and or  $RH < 4\%$ , cement screeds shall have at least 28 days and  $RH < 4\%$ , anhydrite substrates shall have  $RH < 0.5\%$ , gypsum plasters and bases shall be of  $RH < 1\%$ . Slight inequalities (up to 10 mm.) can be smoothed with adhesive, greater ones should be levelled with quick-setting patching mortar e.g. MASTIC 30.

### PREPARING THE MIXTURE

The mortar is prepared by pouring the contents of a bag (25 kg) into measured exactly quantity of pure and cool water (7.5-8.5 L) and stir with a low-speed mixer to obtain a homogeneous consistency with no lumps. The mortar is suitable for use after approx. 5 minutes and after mixing once again. So prepared mortar should be used within 4 hours. In the event of thickening, do not add water but mix again.

### INSTRUCTIONS FOR USE

**SUPERFLEX** adhesive is used in different methods of bonding tiles. With a thin-set method, apply a thin layer of the adhesive on the background using a smooth side of steel trowel; then apply a thicker layer of the adhesive and "comb" the whole with a serrated edge of trowel, keeping an inclination

angle of 45-60°. The size of the teeth of the trowel must be adapted to a size of the applied tiles and background roughness. The area of the applied adhesive should be matched to a possibility of tile laying that the adhesive opening time is not exceeded. After spreading the adhesive, apply the tile to the previous one as close as it is possible, and then push it and move to form a suitable gap between the tiles. Do not soak the tiles before bonding. When laying tiles in places where they are constantly exposed to moisture, frost, or heavy loads (terraces, balconies, swimming pools, stores etc.) apply the tile lying method using a semi-liquid consistency of the adhesive mixture and a trowel with half-round teeth. After spreading the adhesive, apply the tile and then push it and move to form a gap between the tiles of a suitable width. The mortar under the tile should be spread and should fill up to 100% of free space. The time for possible corrections of tile layout is approx. 20 minutes since the moment of tile pressing. Pointing the tiles on walls can be done after approx. 12 hours, whereas the pointing the tiles on floors should be done after 24 hours. A full functional strength of the mortar is achieved after 14 days. Permissible is the movement of pedestrians and the static load not exceeding 150 kg/m<sup>2</sup> after 3 days.

<b>TECHNICAL DATA</b>	
<b>mixing ratio</b>	<b>7.5-8.5 litres of water for 25 kg of dry blend</b>
	<b>0.30-0.34 litres of water for 1 kg of dry blend</b>
<b>Mortar readiness time to be used when mixed with water</b>	<b>up to 3 h</b>
<b>application temperature</b>	<b>from + 5°C to + 25°C</b>
<b>Opening time</b>	<b>30 min</b>
<b>adjustment time</b>	<b>30 min</b>
<b>Wall/floor pointing</b>	<b>after 12/24 h</b>
<b>Partial/full use</b>	<b>after 2/14 days</b>
<b>Binder drainage</b>	<b>≤0.5mm</b>
<b>Indicative consumption with layer thickness of 1 mm</b>	<b>approx. 1.3 kg/m<sup>2</sup></b>
<b>min. layer thickness of the mortar</b>	<b>2 mm</b>
<b>max. layer thickness of the mortar</b>	<b>15 mm</b>
<b>max. Format of bonded components</b>	<b>1.5m<sup>2</sup></b>

## **STORAGE AND TRANSPORT**

Mortar shall be transported and stored in dry conditions on pallets and in original, not damaged packages. Product stored in such way has a shelf life of 12 months. Protect against moisture.