



### Elastic cement-based tile adhesive

According to the requirements of  
EN 12004:2007+A1:2012 - class C2 TES1

*Improved cement-based adhesive  
with reduced sliding and extended open  
time for interior and exterior application*

#### PURPOSE

The high-quality elastic adhesive **FLEXIBLE PLUS T530.S1** has a composition with improved strength properties, achieved by inserted monofibers and special additives.

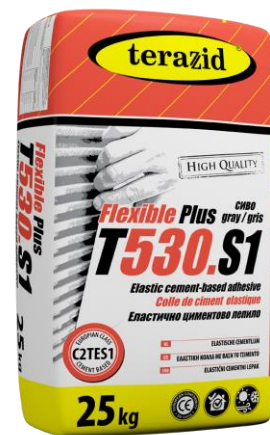
It is designed for secure bonding of all types ceramic and stone floorings, providing a strong and elastic base on critical and deformable substrates and on surfaces exposed to mechanical or thermal expansions.

**FLEXIBLE PLUS T530.S1** has excellent hydrophobic characteristics. All high qualities of the product determine its application for:

- interior and exterior bonding of ceramic and natural stone tiles
- bonding of tiles on many different types of construction bases (concrete, plasterboard, plasters, screeds, etc.)
- bonding of tiles on critical and deformable construction bases, exposed to all weather conditions
- bonding of tiles – faience over faience, terracotta over faience, marble over terracotta
- bonding of ceramic and stone tiles on waterproofing (swimming pools, water reservoirs, etc.)
- bonding of heavy tiles with dimensions up to 100 cm x 100 cm
- bonding of ceramic and stone tiles over underfloor heating systems

#### PROPERTIES

- ❖ extended open time (for work)
- ❖ elastic
- ❖ resistant to high temperatures
- ❖ moisture resistant
- ❖ resistant to linear extensions



#### PREPARATION OF THE BASE

Before application of **FLEXIBLE PLUS T530.S1**, the base should be dry, well cleaned and strong. Application over oil (grease) stains, dust and other contaminants is not allowed. Bases with high absorption should be wetted or primed in advance.

With **FLEXIBLE PLUS T530.S1** you can bond directly on concrete, cement screeds, mosaics and plasters, gas concrete, gypsum plasterboard, gypsum fazer, etc.

When bonding tiles over old tiles, the base must be treated with **TERAZID G-22** in advance.

#### APPLICATION AND PROCESSING

For the complete dissolution of 25 kg of **FLEXIBLE PLUS T530.S1** around 6,75 litres of water are required. Into a preliminary prepared container with water, the necessary amount of dry mixture should be poured and stirred with a mechanical mixer until a homogeneous mass is achieved. Thus, the stirred mixture is left to stay for 10 minutes so that it gets "mature", after that it is stirred once again and it is ready for work.

For economic and quality work, it is desirable to work with a notched mortarboard with an appropriate edges size, depending on the size of the tiles and the type of the base. For achieving the optimal adhesion with the base, it is required that the adhesive is applied on minimum 60% of the tile back.

When working outside, it is better to apply the adhesive on both, the tiles and the base. It is not recommended dipping of ceramic tiles in water.

Time for correction is about 40 minutes.

# TECHNICAL DATA SHEET

## FLEXIBLE PLUS T530.S1



### CONSUMPTION

- From 3 kg/m<sup>2</sup> to 7 kg/m<sup>2</sup>, depending on the tile dimensions

### WORKING TOOLS

- bucket
- electrical stirrer
- trowel
- mortarboard

### WEATHER CONDITIONS FOR APPLICATION

The minimum twenty-four-hour temperature of the air and the basis should not be less than +5°C, and the maximum – not higher than +30°C.

It is not recommended applying of **FLEXIBLE PLUS T530.S1** at high level of air humidity, or when the forecast is for coming rain, or during a rain.

It is recommended to use **TEKALIT** antifreeze additive when the amplitudes between day and night temperatures are large and there is a danger of reaching minus values at night.

### FORM OF DELIVERY

Dry mixture in paper packages of 25 kg.

### NOTES

Characteristics and technical data of the product, pointed out into this Technical Data Sheet are defined at a standard temperature (20°C) and relative humidity (50%). In other weather conditions, the technological time for some of the processes, mentioned above, could be shorter or longer.

The information of the product is based on the practical experience of the manufacturer and the technical tests in specialized laboratories.

Do not mix with other building materials.

All hazards and precautionary statements about **FLEXIBLE PLUS T530.S1** can be checked in the Safety Data Sheet of the product.

### STORAGE

12 months into the originally sealed packages, in a dry and ventilated store. It is recommended to be stored on pallets.

### CHARACTERISTICS AND TECHNICAL DATA

|   |                                     |
|---|-------------------------------------|
| Colour  | grey or white                       |
| Form (aggregate state)                            | dry powder                          |
| Base  | cement                              |
| Open time for work                                | around 40 minutes                   |
| Ready for jointing                                | floor- after 24 h, walls- after 8 h |
| Ready for walking                                 | after 24 hours                      |
| Reaction to fire                                  | A1                                  |
| Bulk density                                      | 1.5 kg/l                            |
| Application thickness                             | up to 10 mm                         |
| Initial tensile bond strength after 28 days       | 2.4 N/mm <sup>2</sup>               |
| Tensile bond strength after water immersion       | 1.1 N/mm <sup>2</sup>               |
| Tensile bond strength after heat treatment        | 2.8 N/mm <sup>2</sup>               |
| Tensile bond strength after 25 freeze-thaw cycles | 1.3 N/mm <sup>2</sup>               |
| Transverse deformation                            | 2.6 mm                              |

*The manufacturer is responsible for the product quality, but not for the manner and the conditions of its usage. The information into the present Technical Data Sheet is reliable, but only if the product is used under the stated specified conditions. The responsibility of any other usage of the product, including its usage in a combination with any other product or process, is borne by the user.*