



## Technical Data Sheet

# BILIS Natural Tile Adhesive No. 503

<b>Range of application</b>	For interior ceramic tiles, plates, cotto and small mosaics on walls and floors made of concrete, screed, plaster, gypsum board, aerated concrete or calcareous sandstone. Also suitable for heavy floor tiles and moist areas but not for swimming pools. Not suitable for heavy wall tiles. Suitable for floor heating systems if the screed is a minimum of 28 days old.
<b>Technical qualities</b>	In powder form. Breathable. Free of added plasticizers, microplastics, fragrances and volatile organic compounds (VOCs).
<b>Full declaration</b>	Casein, quartz sand, marble powder, white lime hydrate, cellulose and diatomaceous earth.
<b>Color</b>	Whitish, after hardening.
<b>Application method</b>	Apply using a trowel. (See reverse for further information)
<b>Coverage</b>	Determine the exact amount needed by doing a test application. 1 kg is sufficient for ca. 0.7 - 1 m <sup>2</sup> (7.5 - 10.7 ft <sup>2</sup> ), more or less depending on the roughness of the surface.
<b>Drying time</b>	At 23 °C (73 °F) and 50% relative humidity, 24 hours, after which jointing can take place.
<b>Cleaning up</b>	Clean equipment immediately after use with cold water.
<b>Specific gravity</b>	ca. 2,24 g/cm <sup>3</sup> .
<b>Safety advice</b>	<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">   <p style="margin-top: 5px;"><b>Danger</b></p> </div> <div> <p>H315 Causes skin irritation.  H318 Causes serious eye damage.  H335 May cause respiratory irritation.  P102 Keep out of reach of children.  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> </div> </div>
<b>Disposal</b>	According to locally regulated laws.
<b>Container sizes</b>	0.5 kg; 5 kg; 25 kg.
<b>Storage</b>	Cool, dry, and frost-free. Shelf life: unopened at least 2 years.

## How to use

# BILIS Natural Tile Adhesive No. 503

### Preparation

Surface must be even, solid, dimensionally stable, dry, absorbent, clean, water-resistant, free of cracks and grease according to DIN 18365.

Recommended residual moisture for unheated screeds (measured using the CM method):

Calcium sulphate screed:  $\leq 0.5$  CM-%

Cement screed:  $\leq 2.0$  CM-%

Remove all old coatings and wallpaper. Even out all uneven spots in the surface with suitable filler. Pre-treat highly absorbent surfaces and surfaces containing gypsum with GRAVA Wall Primer Sealer No. 408. Sand anhydrite screed, vacuum and prime with GRAVA Wall Primer Sealer No. 408.

### Product preparation

Stir 0,5 kg of powder into 250 ml of water or 5 kg in 2,5 liter. After approximately 10 minutes, stir strongly (preferably with a whisk) until a homogeneous mass forms.

The prepared product is depending on the consistency and the weather ready to use after 1 – 2 hours. The drier and warmer the air, the faster the adhesive can harden.

### Application

At room temperatures of at least 5°C (41°F) to max. 30°C (86°F).

1. Apply adhesive to the surface with a toothed trowel (6 x 6 mm). The thickness of the coating is determined by the material and condition of the tiles to be used, and of the underlying surface. When installing heavy tiles on vertical surfaces, tile crosses (or similar) should be used.
2. Place the tile into the adhesive bed, press into place, and straighten within 5 - 20 minutes.  
The open working time of the adhesive is dependent upon the relative humidity and the temperature in the room.
3. The jointing can be made at the earliest after 24 hours.  
Compatible with the tile adhesive is for example HAGA Fugue mortar.  
Please follow the instructions of the manufacturer.

These directions are the result of long years of research and practical testing. They are backed by our most current expert information. New findings may invalidate this information. The latest version is available on our website at [www.livos.de](http://www.livos.de). This data sheet is meant to serve as information and instruction. No legal liability should be interpreted from it. In case of doubt, please contact the LIVOS customer service (see p. 1).