

TECHNICAL DATA SHEET

GRANLEP



INTENDED USE

Specialized white cementitious adhesive for gluing linings made of granite, marble, natural stone, light limestone and other coarse-grained rocks as well as for ceramic, stoneware, facade and clinker tiles and all types of mosaic, e.g. glass and ceramic mosaic. For indoor and outdoor use, also in floor heating systems. It is characterized by improved adhesion and reduced vertical slip and extended open time that allows to glue tiles up to 30 minutes of spreading the adhesive on the surface. GRANLEP is a cement-based adhesive of enhanced parameters, extended open time and reduced slip, deformable, for indoor and outdoor use, for walls and floors class C2TES1.

SURFACE TYPES

Properly seasoned and prepared cement and cement-lime plasters (at least 28 days old), gypsum plasters, concrete surfaces (at least 3 months old), cement and anhydrite floors, masonry made of bricks, ceramic hollow bricks, silicate bricks and cellular concrete blocks, old tiles, terracotta, stoneware and drywall. It may also be used for mounting decorative elements in historical and sacred buildings.

SURFACE PREPARATION

The surface should be strong and smooth, free from dust, dirt, lime, oils, grease, wax, residues of oil paints or emulsion paints etc. Surface irregularities up to 5mm can be pre-filled with adhesive mortar. Remove brittle and peeling old layers of poor adhesion. New plasters and concrete should be set and seasoned. Laying linings on an excessively damp surface is one of the most serious errors related to execution of floors that often lead to complete destruction of the floor layer. Prime surfaces of reduced adhesion with a MAJSTERGRUNT UNIVERSAL PRIMER, and highly absorbing surfaces with a MAJSTERGRUNT DEEP-PENETRATING PRIMER. If applying the adhesive on the weak and difficult to clean surface, it is recommended to perform an adhesion test - glue the tile and check the joint after 48 hours.

APPLICATION INSTRUCTIONS

Stir the bag contents manually or mechanically with a specified amount of cold and clean water until uniform and desired consistency is obtained. After 5 minutes the mass should be stirred again. Apply the adhesive with a trowel or spatula and spread with a notched trowel of appropriate notch size. Do not wet the tiles prior to gluing. Apply the tiles by pressing them to the surface so that the adhesive

mortar adheres to at least 70% of the tile surface. Very large tiles, larger than 30x30 cm, should be placed so that the adhesive mortar adheres to at least 90% of the tile surface. All tiles laid on the outside and in permanent wet floors and intensively used, they should be glued to adhere to the mortar across the surface of the wafer. All tiles that are laid on exterior surfaces, permanently humid places and on floors that are intensively used, should be glued so that the adhesive mortar adheres to the entire tile surface. To fulfill such requirements, apply the adhesive with a thin layer of even thickness that covers all profiled elements on the entire surface of the back side of the tile. Select the joint width according to the lining location and the tiles' size. Any changes in position can be made within 10 minutes of application. Tiling should be performed within 30 minutes of spreading the adhesive on the surface. Prepared adhesive should be used up within 2 hours after mixing with water. If the adhesive thickens during that time, stir it again thoroughly and do not add any water. Adding water impairs all adhesive properties such as adhesion and slip and prolongs its bonding time. The unused hardening adhesive is not suitable for re-mixing with water and should be thrown away.

COMPOSITION

A mixture of Portland cement, sand, appropriately selected modifying additives and fibers.

PACKAGING

25 kg multiwall vented paper bag.

STORAGE

Store in an original, undamaged packaging, in a dry place. Shelf life is 9 months from the manufacture date found on the packaging.

NOTES AND RECOMMENDATIONS

The technical specifications and instructions for use are provided for the temperature of $+23 \pm 2^\circ\text{C}$ and relative humidity of $50 \pm 5\%$. Processing time may change due to adverse weather conditions. Information provided on the packaging is to ensure an optimal use of the product, but does not give rise to liability of the Manufacturer, because the use conditions are beyond his control. Any change in product composition is unacceptable and can significantly diminish the quality of the material. It forms an alkaline solution when mixed with water. Empty paper packaging can be recycled. Attention!!! Do not soak tiles prior to laying!!!

TECHNICAL SPECIFICATION

Colour: white
Appropriate amount of water: 6,0 - 6,5 L per 25 kg bag
Surface temperature: from +5°C to 25°C
Ambient temperature: from +5°C to 25°C
Correction time: ≤ 10 min.
Consumption time: ca. 2 h
Grouting: after 24 h
Load by walking: after 24 h
Total load: after 21 days
Chromium (VI) content < 2 ppm.

CONSUMPTION

ca. 1,3 kg per 1 mm of mortar thickness layer

Trowel notch size	Consumption
6 mm	2,4 kg/m ²
8 mm	2,8 kg/m ²
10 mm	3,8 kg/m ²

* while applying the adhesive also on a tile, consumption increases by ca. 0,5 kg/m²

The Declaration of Performance no.: MP/013/2013
The Hygienic Certificate of the National Institute of Hygiene no. PZH HK/B/0514/01/2014
The Radiation Hygiene Certificate no. HR/B/24/2013

With the publication of this Technical Data Sheet all previous versions are no longer valid