

# Technical Data Sheet

# Speedlep

## FAST-SETTING CEMENT ADHESIVE FOR GLUING CERAMIC, STONEWARE, FACADE AND CLINKER TILES

### FIELD OF APPLICATION:

Specialist fast-setting cement adhesive for gluing ceramic, stoneware, facade and clinker tiles. It is characterized by fast setting time, high adhesion and reduced sagging from vertical surfaces. It is recommended for application inside and outside buildings and on floor heating. It is highly efficient deformable mortar S recommended for use on deformable substrates. The short setting time (about 40min.) enables fast progress of works. The additional advantage of this mortar is a fast increase in strength. The pedestrian traffic is allowed after 2 hours from gluing the tiles. Speedlep is a cement adhesive (C) with enhanced parameters (2), fast-setting (F) without the sagging effect (T) and high deformability (S), class C2FTS1.

### TYPES OF SUBSTRATE

Appropriately seasoned and prepared cement plasters, cement-lime plasters (age above 28 days), gypsum plasters, concrete substrates (age above 3 months) and cement and anhydrite floors, masonry made of bricks, ceramic hollow bricks, silicate bricks and cellular concrete blocks, old glaze, terracotta, stoneware and gypsum boards.

### SUBSTRATE PREPARATION:

The substrate should be solid and even, cleaned of dirt, lime, oils, greases, wax, residues of oil and emulsion paints, etc. The substrate unevenness up to 5 mm may be previously filled with dry set mortar. Remove old, fragile and peeling layers characterized by poor adhesion. New plasters and concrete should be and seasoned. Laying linings on an excessively moistened substrate is one of the most serious errors related to execution of floors, and leads very often to complete destruction of the floor layer. Prime the substrates with reduced adhesion by means of the MAJSTERGRUNT UNIVERSAL primer, and the very absorptive substrates with the MAJSTERGRUNT DEEP PENETRATING primer. In case of the necessity to glue tiles on poor substrates which are difficult to clean, it is recommended to perform the adhesion test, which consists in gluing the tile and checking the joint after 48 hours.

### DIRECTIONS FOR USE:

Stir the content of the packaging mechanically or by hand, using the specified amount of clean and cool water to obtain homogenous mixture and desirable consistency. Stir again after 5 minutes. Apply the adhesive with the use of a trowel or spatula and spread it by means of the notched trowel with appropriate teeth size. Do not moisten the tiles before gluing. Apply the tiles, pressing them to the substrate, so that the dry set mortar could adjoin at least 70% of the tile surface. Very big tiles, bigger than 30x30 cm, should be laid in such a way as to make the mortar adjoin the whole tile surface. All the tiles laid outside or at permanently wet places, as well as on intensely used floors should be glued in such a way that the mortar adjoins the whole tile surface. In order to meet these conditions, apply the dry set mortar on the whole surface of the reverse side of the tile, in a thin layer, with an even thickness, covering all the profiles. The width of the joint must be selected depending on the location of the lining and the size of the tiles. It is possible to adjust their position within 10 minutes. Perform the gluing activity at a time not longer than 10 minutes from the moment of spreading the adhesive on the substrate. Use up the



adhesive within 15 minutes from the moment of its mixing with water. In case the adhesive thickens during that time, mix it again intensely without adding any water. Adding water will worsen all the adhesive parameters including adhesion and sagging, and will extend its setting time. The unused hardening dry set mortar is not fit for mixing with water and must be thrown away.

### STORAGE:

Store in dry premises. The product in the original, undamaged packaging may be stored for a period of 9 months.

### NOTE:

The technical data and information on the method of use are provided for the temperature of +23± 2°C and relative humidity of 50± 5%. In other conditions, the consumption time may be subject to changes. Information provided on the packaging is to ensure an optimal use of the product, however, it does not constitute grounds for the Producer to assume legal responsibility as the conditions of workmanship are beyond the Producer's control. Any interference in the product composition is inadmissible and can significantly degrade the quality of the material used. The product becomes alkaline after mixing with water. The accurately emptied paper packaging may be processed again during the recycling process. Warning!!! The tiles should not be soaked before application!!!

### COMPOSITION:

Portland cement, sand and suitable modifying additives

### PACKAGING:

25 kg ventilated multi-layer paper bag

### TECHNICAL DATA:

Colour:	grey
Proper water quantity:	6.5 – 7.0 litre per 25 kg bag
Substrate temperature:	from +5 °C to + 25 °C
Ambient temperature:	from +5 °C to + 25 °C
Reaction to fire:	Class A1
Early tensile adhesion:	≥ 0.5 MPa
Initial tensile adhesion:	≥ 2.2 MPa

Adhesion after water immersion:	≥ 1.0 MPa
Adhesion after freeze/thaw cycles:	≥ 1.2 MPa
Open time – adhesion after t ≥ 10 min:	≥ 2.1 MPa
Sagging:	≤ 0.5 mm
Adjustment time:	≤ 10 minutes
Consumption time:	about 15 minutes
Pointing:	after 6 h
Use:	after 2 h
Cross deformation:	class S1
Chromium (VI) content:	< 2 ppm

#### CONSUMPTION:

Ca. 1.3 kg per 1 mm of mortar thickness layer.

Trowel teeth size - Consumption\*

6 mm -	2.4 kg/m <sup>2</sup>
8 mm -	2.8 kg/m <sup>2</sup>
10 mm -	3.8 kg/m <sup>2</sup>

\* while applying the dry set mortar also on a tile, the consumption increases by about 0.5 kg/m<sup>2</sup>

#### FORMAL AND LEGAL DOCUMENTS:

EN 12004:2008+A1:2012 Adhesives for tiles. Requirements, evaluations of compliance, classification and marking.

Declaration of performance No. MP/014/2013

Hygienic Certificate of the National Institute of Hygiene No. PZH HK/B/1512/01/2011

Radiation hygiene certification No. HR/B/25/2013

Upon release of this Technical Data Sheet all previous technical data sheets expire.