BASEBETON TECHSTONE

USER MANUAL + TECHINCAL DATASHEET

PRODUCT DESCRIPTION

TechStone is a ready-to-use technical layer in paste form supplied in colour for optimising the substrate for Basebeton, Basebeton Solid and Basebeton Xtreme, for example.

Characteristics

Techstone can be used for:

- Pre-treatment of floors, furniture and worktops due to its strong adhesion. Optimising floors with underfloor heating, provided the heating system is installed in accordance with approved safety regulations and the correct mortar is used for the installation to prevent cracking in the outer layers of the product and therefore in the product itself.
- Can be applied to gypsum and cementitious substrates.uitsluitend
- Suitable for indoor use only

METHOD OF APPLICATION

TechStone is delivered ready to use and is applied in a single layer. Before TechStone can be applied, the substrate must be flat, dry, load-bearing, dust and dirt-free, stable and free of tension. The substrate must be free of cracks and crevices. If present, they must be treated in advance.

Preparation
Before applying TechStone, the substrate must be primed with MCG primer. We recommend diluting MCG (primer) 1:1 with water on absorbent substrates. For nonabsorbent substrates, MCG can be applied undiluted. MCG primer is applied evenly with a coat or foam roller. The drying time before applying Techstone is +/- 1 hour.

Application of TechStone
As soon as the MCG primer is dry to the touch, TechStone can be applied. Mix the TechStone manually or automatically for a short time before application. Apply TechStone evenly with a trowel or plasterer in a layer thickness of 0.5-1 mm. The drying time is 4-6 hours at a room temperature of 18-25 °C. The TechStone layer can be sanded with P40 to P80 grit paper and dusted with an industrial hoover before applying the next layer.

Please note that the drying, hardness, workability and layer thickness may vary depending on room/surface temperature, air humidity and application method/thickness.

APPLICATION CONDITIONS

- Room temperature requirement of 18 - 25 ^{o}C
- Required material and surface temperature of 12 - 18 ^{o}C
- Relative humidity: 40 - 70%
- Residual moisture percentage subfloor
    - o Cement screed: max. 4%
    - o Anhydrite: max. 0.5%.
- Always apply edge strips and do not make a rigid connection to the wall.

Always implement the heating protocol: Cement and gypsum based screeds must be at least 28 days old. You will find the heating protocol under the heading heatingprotocol.

USAGE

MCG Voorstrijk : +/- 50 gram per m²
TechStone : +/- 1000 gram per m²

PRESENTATION

- Basebeton TechStone : 10 and 20 kg buckets

STORAGE

Up to 12 months after production date, provided it is stored closed in the original bucket and not exposed to extreme weather conditions and/or humidity. Make sure that the edges and the inside of the lid are clean.

HEATING PROTOCOL

Example of a cycle, assuming 15 °C ambient temperature for start of heating protocol. The screed must be warmed up before starting the floor laying operations. Cementitious and gypsum-based substrates must be at least 28 days old.

dag	Watertemperatuur in ºCvloerverwarming	Oppervlaktemp. vloer ºC	dag	Watertemperatuur in ºC Warmtepomp/koeling	Oppervlaktemp. vloer ºC
1	20		1	16/18	
2	25		2	20	
3	30		3	25	
4	35	Max. 31	4	30 indien mogelijk	
5	40	Max. 31	5	35 indien mogelijk	Max. 31
6	40	Max. 31	6	35 indien mogelijk	Max. 31
7	35	Max. 31	7	30 indien mogelijk	
8	30	Max. 31	8	25	
9	25		9	20	
10	20		10	16/18	
11	Herhalen of stoppen		11	Herhalen of stoppen	

NB. Do what is possible. In the case of excessive cracking after implementation of the heating-up protocol, adjust the floor system advice. Or better: state in advance in the tender: if excessive cracking occurs or a heating-up protocol cannot be implemented, we recommend, for example, floor system class A5 crack bridging.

SPECIFICATIONS

Type / Appearance : Paste
Apparent density , TechStone paste : Pre application 1.400 kg / m^3,
Hardened 2.000 kg / m^3

Maximum lifespan of the BaseBeton mixture : 7 hours
Maximum aggregate size : 0,1 mm

Resistance specifications (EN 1015-11):

- Compression after 28 days : 30 N/mm^2
- Flexion after 28 days : >12 N/mm^2
- Concrete adhesion after 28 days : 1,6 N/mm^2
- Maximum applicable thickness, Basa paste : 0,2 to 0,5 mm per layer
- Reaction to fire testing (EN 13501-1) : A1
- Adhesion strength N/mm^2
  - Substrate plaster bonded : > 1.0 N/mm^2
    Breaking point : Plaster breaks
  - Substrate cement-bonded : > 1,3 N/mm^2
    Fracture surface : In underlay

SPECIAL PROVISIONS

This product contains pulverised stone. Avoid contact with eyes and skin, as well as inhalation of dust. Use rubber gloves and safety goggles. Keep out of reach of children. Do not apply base concrete products at a room temperature below 5°C or above 30°C. Empty buckets should be disposed of in accordance with the applicable legal regulations.

ADDITIONAL HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users of these products should refer to the most recent Material Safety Data Sheet regarding physical, ecological, toxicological and other safety-related data.

For more information on the composition, constituents and hazard identification, refer to the Safety Data Sheet at https://www.stoneage.nl/veiligheidsbladen.

DISCLAIMER

This information, and in particular the recommendations regarding the application and use of Stone Age products, is provided in good faith based on our current experience(s) and product knowledge. This information applies to products stored, handled and applied under normal conditions and in the correct manner, in accordance with Stone Age's advice. In practice, differences in materials, substrates and actual (working) conditions on site are such that no guarantee of merchantability or fitness for a particular purpose, nor any liability (arising from any legal relationship whatsoever), can be derived from this information or from any advice (whether verbal or written) given by Stone Age.

The user of the products must test the suitability of the products for the intended application and purpose. Stone Age reserves the right to change the properties of its products at any time. The property rights of both Stone Age and third parties must be

respected. All orders to Stone Age shall be subject to the currently applicable conditions of sale and delivery.

CE MARK

The harmonized European standard EN 13 813 „ Screed material and floor screeds – screeds – material properties and requirements" specifies requirements for screeds for use with floor constructions. Structural screeds or coatings, for example those contributing to the load bearing capacity of the construction, are excluded from this standard. Both synthetic resin floors and cement-bonded screeds are covered by these specifications. They must be CE-labelled according to Annex ZA. 3, Table ZA. 1.5 and 3.3 and comply with the requirements of the Construction Products Directive (89/106):

CE	
Stone Age B.V. Butaanstraat 10 7463 PG RIJSSEN The Netherlands	
13[1]	
EN 13 813 SR-B1.5	
Primers/sealers	
Reaction to fire:	A1
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	WP
Abrasion resistance:	NPD
Adhesive strength:	B1.5
Impact resistance:	NPD
Noise insulation:	NPD
Noise absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

[1] The last two figures of the year in which the mark was awarded.

[2] NPD = No Performance Determined.

[3] WP = Water Proof (het materiaal is waterdicht en neemt geen water op)