# BETAFIX SF

## *Technological instructions no.: 41*

**Safety sheet no.:**
41

**Composition:**
hydraulic and polymer binding substances, modifying additives, fine-grain fillers

**General description:**
Dry (flexible) adhesive cement for facing elements (ceramic, natural stone etc.). – marking C2TE subject to the EN 12004 standard. It is used for adhesion on common bases (plinth walls, sustaining walls, balconies, pillars, facades and walls) in interior and exterior.

**Merits:**
Flexible and usable also for less stabile bases and heated floors. It shows increased adhesion to attached materials. The hardened material ensures frostproof adhesion.

**Unit of measure:**
kg

**Consumption per m2:**
1,5 to 3,5 kg/m2. The consumption depends on a type of base and attached materials, flatness of the base and thickness of adhesive cement.

**Spreading capacity:**
10 m2 / bag (25 kg) according to the base and the thickness of the adhesive cement

**Grain size:**
not mentioned

**Packing:**
The product is packed in 25 kg laminated paper bags

**Customs code:**
3214900000

**Colour scheme:**
grey tint

**Thinning:**
The material is prepared by mixing of 100 weight parts of dry BETAFIX SF material into 24 to 28 weight parts of water according to the required consistency.

**Bases:**
Adhesion is possible on common bases (concrete, cement compound, coherent firm render, aeronconcrete). The adhesion is not possible to lime or glue paints. Such instable layers must be removed before application by regrating or grinding. When attached to not firm and volume unstable bases (cement-fibre, chipboards, wood-fibre boards, fibreglass etc.) especially in spaces exposed to significant changes of humidity and temperatures, the corresponding base preparation and adhesion technology must be set according to concrete conditions by consultation with the producer. Absorbent bases are impregnated by penetration solution. A double penetration must be done with highly absorbent bases or bases repaired by previous regrating of lime or glue paints. For impregnation of bases the penetration coating EH is mostly used, further NL, AD paints, eventually HC-4 or HC-5 base paints.

**Warning:**
The mentioned information are compiled upon current status of technique. They represent general instructions upon our application experience and material test results. However they cannot include local conditions at its application and due to this any legal liability cannot be deduced from them. In doubt or need of solution of specific technical questions please contact us.

**Preparation of the material:**
The material is prepared by mixing of 100 weight parts of dry BETAFIX SF material into 24 to 28 weight parts of water according to the required consistency by means of mixing stirrer. It is mixed under low revolutions 2 to 10 minutes according to the stirrer type and after 10 minutes of maturing and short mixing the material is prepared for use. Adding of other mixing water or additives is prohibited. The material is processed under temperatures from +5 °C to +30 °C, while temperature of the base, attached material, dry mixture and water before mixing is also within this temperature range.

**Workability period:**
The workability period is approx. 30 minutes, however it also depends on amount of used water.

**Description of application:**
Spreading of adhesive cement BETAFIX is done by means of tooth applicator with teeth height of 3 to 10 mm onto the prepared base. Into the bed prepared in this way tiles or exact structural elements are laid and pressed into the required height while excess of forced out adhesive cement is removed. Position of attached tiles and structural elements can be adjusted until the adhesive cement starts to dry. Places polluted by the BETAFIX must be cleaned in time.

**Flatness requirements:**
not mentioned

**Climatic conditions during application:**
Range of working temperatures is +5 °C to +30 °C. Do not realise under rain or strong wind. The applied material must be secured against frost and rain influences up to complete drying.

**Security (S-theorems):**
S 2 Store out of reach of children.
S 22 Do not breathe the dust.
S 26 If eyes are hit immediately and thoroughly rinse them out and seek medical help.
S 36/37/39 Use suitable protective clothing, gloves, goggles or face sheet.

**Security (R-theorems):**
R 36/37/38 Irritating for eyes, respirator organs and skin.
R 43 May provoke sensibilisation at skin contact.

**Safety regulations:**
The product contains cement and as such it is classified in the sense of the Act no. 356/2003 Coll. as amended as an irritating substance with warning symbol Xi. Protection of respirator organs is not necessary if the highest admissible concentration of 10 mg/m3 is kept.
Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium.

**First aid:**
Protect your eyes and skin against stain, do not eat, smoke nor drink during the work. After the work wash your hands with water and soap and apply and reparation cream. If your eyes are hit, rinse them with water minimally for 15 minutes. If consumed immediately rinse mouth, drink minimally 0,5 l of water, do not invoke vomiting and always seek medical help.

**Recommended tools:**
tooth applicator with tooth height of 3 to 10 mm

**Quality:**
The product is certified for the mentioned use and tested by accredited testing laboratory. At production the product is controlled by the company laboratory subject to the certified quality management system subject to the ?SN EN ISO 9001 standard.

**Storage:**
The product must be stored in original packing protected against humidity, direct sunlight under temperatures minimally +5 °C. Under the mentioned conditions is the storage life 6 months from the production date. Production date is marked on the packing.

**Liquidation:**
Liquidation of not used remains is done by watering and depositing of the hardened inert substance as a building waste. Used packaging is liquidated as composite waste according to the valid legislation.

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**STOMIX, spol. s r. o., 790 66 Skorošice 197**
**Czech Republic, ID: 48400874**
**EN 12004**
**C2TE**
**Improved cement mortar for ceramic facing and paving materials with reduced slipping and increased time of pre-curing**

**High initial tensile bond strength:** EN 1348 ≥ 1N/mm$^2$
**High tensile adhesion after water immersion:** EN 1348 ≥ 1 N/mm$^2$
**High tensile bond strength after storage in the heat:** EN 1348 ≥ 1 N/mm$^2$
**High tensile adhesion strength after freeze-thaw cycles:** EN 1348 ≥ 1 N/mm$^2$
**Open time tensile adhesion:** EN 1346 ≥ 0,5N/mm$^2$ not less than 30 minutes
**Skid:** EN 1308 ≤ 0,5 N/mm$^2$
**Reaction to fire:** EN 13 501-1 Class A1