



Technical Data Sheet 06.77s

Flexible tile and pavement adhesive SUPER FLEX C2TES1 (J)

Product Flexible adhesive cement glue with reduced slip and extended setting time that satisfies demanding conditions. Designed for bonding tiles, thermal insulation material, and smoothing reinforcement fabrics. Bonds directly to old tiles, electrical heating mats, large articles with high mechanical loads, plaster, concrete, aerated concrete, unplastered masonry, etc. Complies with European standard ČSN EN 12004:2001 for type C2TES1. It is characterized by high plasticity, flexibility, and adhesive bonding.

Properties

- Resistant to water and frost;
- For indoor and outdoor use;
- Highly flexible, with high adhesiveness;
- High tensile strength and pressure;
- Prolonged setting period;
- With reduced slip;

Use

- Bonding ceramic tiles, natural stone pavement to concrete, plaster, aerated concrete, unplastered walls, and to old tiles;
- For indoors and outdoors;
- Bonding tiles on floor heating, for direct application to electrically-heated mats, old tiles and pavement
- Bonding large tiles with high mechanical and thermal loads
- Bonding facade EPS-F and MW with longitudinal fibers and subsequent leveling glass-fiber grid reinforcements and fastening construction sections;

Packaging Sack 25 kg / 1 pallet – 42 sacks / 1,050 kg.
Color Gray

Technical data

Base	-	cement mix with binders	
Bulk amount of fresh mortar	kg/m ³	≈ 1,500	
Processing time	min.	180	After mixing at 20°C and 65% relative humidity
Open time	min.	30	After applying at 20°C and 65% relative humidity
Repairs	min.	5 – 15	after application
Medium grain size	mm	0.35	
Thermal resistance	°C	-30 / +70	(after curing)
Application temperature	°C	+ 5 / +30	for air and surface
Tensile strength under bending	MPa	≥ 1.0 (N/mm ²)	
Initial tensile adhesiveness	MPa	≥ 1.0 (N/mm ²)	ČSN EN 1348 8.2
Tensile adhesiveness after immersion in water	MPa	≥ 1.0 (N/mm ²)	ČSN EN 1348 8.3
Tensile adhesiveness after exposure to freeze-thaw cycles	MPa	≥ 1.0 (N/mm ²)	ČSN EN 1348 8.5
Tensile adhesiveness under heat	MPa	≥ 1.0 (N/mm ²)	ČSN EN 1348 8.4
Setting time: Tensile adhesiveness	MPa	≥ 0.5 (N/mm ²)	after less than 30 min. (ČSN EN 1346)
Slip	mm	≤ 0.5	EN 1308: 1996
Application	-	trowel	notched – tooth
Grouting tiles	hours	≈ 24	at 20°C / 65% relative humidity
Grouting pavement	hours	≈ 48	at 20°C / 65% relative humidity

Údaje o zápisu do OR: Zapsáno KS Ostrava, oddíl B, vložka 2951

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Full load	days	≈ 28	at 20°C / 65% relative humidity
Water consumption for mixing	L	≈ 4.75 - 5.25	for 25 kg of adhesive for bonding
Consumption of adhesive	kg/m ²	≈ 2.5	for a thickness of 3 mm – facing
		≈ 4.0 – 6.0	for a thickness of 6 mm – facing
		≈ 6.0	for a thickness of 6 mm on floor heating

Restrictions It is not suitable, among other things, for bonding at low temperatures below +5°C and in direct sunlight – protect from rapid drying. Not suitable for metal, plastic or wood substrates and materials based on wood matter. The cement adhesive should not come into direct contact with anhydrite screeds; a separation bridge is always necessary when using cement adhesives.

Surface Must be clean, solid, dry, firm and hard, unfrozen and free of dust particles, grease and oil. Prime absorbent substrates with S2802A Primer or S-T70 before applying the adhesive. If the surface is wet, the cement will solidify very slowly. Before applying refined or mineral plasters, the surface should be primed again with S2802A.

Mixing the mortar adhesive Use potable water or water that meets ČSN EN 1008. Thoroughly mix the dry matter with water in the quantity of about 4.75 – 5.25 liters of water per 25 kg until a smooth homogeneous mass is reached and let sit for 5 – 10 minutes. Do not allow any lumps to be created. Mix thoroughly again. For mixing, it is advisable to use a drill with an adapter (paddle) at a low speed (500 rev / min).

Using the mortar adhesive When gluing tiles, apply tile adhesive in a thin layer across the entire surface of the substrate with the smooth side of a trowel and then work through it with the notched side of a trowel. The contact surface between the article and the substrate indoors must be more than 65% and outdoors more than 90%. Tiles or pavement can be laid by pressing into the prepared bed. The maximum thickness of the bed is 5 mm. **Caution, do not dampen tiles or substrate in advance!!!** The time for laying the tiles (open time) is about 30 minutes. This time is usually shorter during extreme heat. Any nonstick layer of defective mortar needs to be scraped away and another layer of adhesive applied to the clean surface. Wall tiling can be grouted after 24 hours and pavement after two days at the earliest. When gluing tiles outdoor (frost-resistant, sintered, or otherwise designated), a thin layer of tile adhesive should be applied to the paving with the smooth side of a trowel. A thicker layer of adhesive is then applied to the surface using the smooth side of the trowel and then worked thoroughly with a notched trowel with teeth measuring at least 6x6 mm.

Note: Tiles made of highly compact fragments with a maximum absorption of 0.5% are considered frost resistant, the surface of which may be smooth, polished, glazed (satinato), embossed, imitation natural stone, etc. These tiles are suitable not only for use indoors, but mainly outdoors.

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Bonding thermal insulation material Polystyrene and mineral boards are placed together, without filling in the gaps. For substrates with unevenness greater than ± 4 mm, a layer of cement adhesive must be applied on the insulation material up to 2 cm around the edges and in 2-3 locations inside the board along the same layer. After gluing, the contact surface must create at least 40% of the board. For a surface with unevenness of less than ± 4 mm, the cement adhesive is applied to the insulation material with a notched trowel with teeth up to 10 mm. The insulation boards must be attached with dowels for at least 24 hours after gluing the boards and smoothing the board surface.

Smoothing insulation materials Smoothing must be performed in two steps by applying the adhesive and pressing a reinforcing fabric into the wet cement. Gauze is placed with an overlap of at least 10 cm. Corners and jambs should be reinforced with another layer of gauze and set with corner molding. The surface of the screed is evened and smoothed. The final thickness of the reinforced screed is about 4 mm. After the reinforcing layer hardens in about 48 to 72 hours, the upper plaster can be applied.

Note: If the reinforcing layer is made after more than 14 days after sticking the insulation material, the board facades need to be smoothed again before reinforcing.

Attention: Adding additional aggregates, binders or additives to the ready mix or sifting it is not permitted. Do not use at temperatures below $+5^{\circ}\text{C}$ (air and surface) or when frost is expected.

Areas affected by soiling should be covered. Immediately clean any soiled aluminum and anodized finishing strips, otherwise permanent stains may remain on them. When gluing the tiles without finishes (glaze) such as natural stone, slate, sandstone and similarly difficult to clean surfaces, extra care must be taken to prevent them from staining during installation. The cement adhesive can be removed from these surfaces with great difficulty and then only mechanically.

The manufacturer is not liable for damages resulting from the misuse of this product.

Cleaning Substrates made of wood, metal and plastic are not suitable for installation!!!
Material: use water immediately.

Hands: soap and water, regeneration cream for the hands.

Safety See «Safety Data Sheet 06.77s».

Updates Updated: 24 May 2012

Prepared: 16 January 2012

This product conforms to specifications during the warranty period. Information and data provided here are based on our own experience, research and objective testing and we presume they are reliable and accurate. The firm, however, cannot be aware of all the possible uses for this product, or the methods used for its application, and therefore we do not provide a guarantee under any circumstances over and above the information that relates to the suitability of our products for certain uses and procedures. All the data given above are of a general nature. Every user is obligated to verify the suitability of use by means of own testing. For more information, please contact our engineering division.

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