Tiles adhesive C2 – TE – S1

PRODUCT DESCRIPTION
Cementitious flexible grey adhesive, frost and water resistant under EN 12004:2007 (C2 TE S1) for ceramics, glass mosaic and gres tiles. For walls and flooring, patios, balconies and under floor heating floors. For internal and external use. Perfect for extremely deformable subs (weathered concrete, plasterboard walls, etc) or old plasters but only if loadbearing.

PRODUCT CONTENT
- Cement
- Silica sand
- Additives to aid a better workability

CHARACTERISTICS
- Insoluble in water
- Flexible
- Deformable (S1)
- Longterm yield
- Longer working time
- Frost resistant
- Suitable for underfloor heating
- Suitable for mineral and organic sub floors
- Reduced dust

Application

Temp of application
During product preparation, application and drying, the temperature of the surrounding area and of the support must not be lower than +5C. Protect it from frost until it is has completely dried and hardened, from a too fast drying (direct heat from the sun, wind) and from humidity and damp (rain).

Supporting base
Appropriate calcium sulphate cementicious and 6 months old concrete sub floors only or cementicius and limestone plasters. Self levelling calcium sulphate screeds must be sanded and polished before tiles are applied. Always be aware of the level of residual humidity allowed in relation to the type of support base. Residual humidity: cementicious subs 2.5%; calcium sulphate subs 0.5% (underfloor heating 3%); where large ceramic tyles and underfloor heating are used 1.3%. For plasters EN 998-1 please follow the current regulations re waiting times. For chalk and chalk/lime plasters EN 13279-1 a residual humidy value of 1% must not be exceeded. The supporting base must be solid, consistent, dry and free from dust, cracks and any substance that can impede adherence such as oils, paint and solvent residue.

Preliminary treatment of the supporting base
It is generally recommended to pre-treat it with a primer for porous substrates and a fixing primer for critical substrates. In the presence of extreme uneveness of the sub it is necessary to coat the entire area with a floor screed or a universal self levelling screed. Small irregularities can be levelled with an adhesive mortar (check max thickness). Small irregularities and holes must be repaired with the appropriate type of mortar.

Preparation
Add appr 7.0 lt of clean water to the content of a pack and mix to obtain a smooth and lump free paste. Mix the product continuously with a mechanical mixer. add where needed add a small amount of water to regulate consistency. Once mixed thoroughly leave to rest for approx 5 min, then mix again with a mechanical mixer.
### Application

Use a serrated spatula and apply directly on the supporting base. Lay the product with the smooth side of the spatula and spread it with the dented one following the same direction throughout. Where it is needed to set the tiles without gaps please use the floating-buttering method. Apply the adhesive only on an area that can be tiled during the product’s working time. Any left over material must not be reused nor mixed with a new batch and must be disposed of appropriately. The tiles must be set on a thin adhesive bed with a slight and light sliding movement; it is possible to correct the position of the tiles within 10 min from them being set.

### Warnings

In the event of exceeding the product working time it is necessary to re-apply a new layer of adhesive with a serrated spatula. Doing so will effectively destroy the previous layer. Mechanical mixers are particularly suitable for particularly viscous materials such as cementicious adhesives.

### Safety

Further and complete information about the safe use of our product can be found on our separate safety data sheet. These must be read accurately before use.

### Storage

Keep in a dry place, ideally on wooden pallet. Use by: min. 12 months under reg 1907/2006/EG allegato XVII a 20°C, e 65 % U.R.

### Technical data

<table>
<thead>
<tr>
<th>Product code:</th>
<th>TER3FBMS1FLEX</th>
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<tbody>
<tr>
<td>Packaging:</td>
<td>In antihumidity paper bags.</td>
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<tr>
<td>Quantity per pack:</td>
<td>25kg/cf.</td>
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<tr>
<td>Quantity per wooden pallet:</td>
<td>54 EH/Pal</td>
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<tr>
<td>Granulometry:</td>
<td>0 - 0.5 mm</td>
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<tr>
<td>Colour:</td>
<td>Grey</td>
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</table>
| Consumption: | 2.0 - 2.3 Kg/m² with a 6 mm serrated spatula  
2.8 - 3.2 Kg/m² with a 8 mm serrated spatula  
3.6 - 4.0 Kg/m² with a 10 mm serrated spatula |

The above consumption rates are purely for indication purpose, and largely depend on the characteristics of the subfloor and the type of technique of application used. When used for the first time and on large areas it is advisable to first apply the product on a test area.

| Water needed: | approx 7 lt/cf |
| Thickness: | max 10 mm |
| Adhesion to the support: | ≥ 1Mpa |
| Maturing time: | 5 min. |
| Pot life of mix: | approx 3 h |
| Open time: | 30 min. |
| Adjusting time: | approx 10 min. |
| Set to light foot traffic: | approx 24 h |
| Ready for use: | 7 d |
| Grouting: | Wall: 12h  
Floor: 24h |
| EN 12004: | C2 TE S1 |
| Temp of the supporting base: | >5 °C < 25 °C |

### General Warning

The above technical data sheet replaces and voids all previous versions. All date have been obtained with the utmost care and conscience. We cannot guarantee however its exact accuracy and precision and we are not responsible for any decision taken by the user. The data do not hold us responsible legally. No warranty can be given or responsibility accepted. For this reasons end users should ensure that they test the product in the conditions suited to its application and that are satisfied with its delivery and response. Our product are subjected to continuous and regular quality checks, on the finished product as well as on the prime materials in order to guarantee a high quality product. Our technicians and consultants are available for information, clarifications, and queries on the preparation and application of our products as well as for visiting sites. The most updated data sheets are available on www.fbmlab.it or they can be requested directly from our offices. National building directives must be respected at all times. The technical
data reported in the above data sheet have been obtained through trials, standard and modified tests under FBM and Pentachem systems. Informations on the methods used can be requested to FBM and Pentachem.

All the technical details in the above data sheet represent the best of our knowledge, experience and expertise. We advise however to test the product beforehand for all different uses. In all cases, FBM Materials and Pentachem are not responsible for any damage, defect or consequence deriving from the use of their products, not being in the position to supervise the conditions for its correct usage and application.

Our technical customer support is available to respond to any query related to the correct use of our product.

**Icons**

- **Interior and Exterior**
  - Use a notched trowel

- **Interior/Exterior/Ceiling**
  - Self levelling

- **Interior/Exterior/Floor**
  - Do not apply in temp below 5°

- **Manually workable**
  - Do not apply in temp below 5° and over 30°

- **Use a notched trowel**
  - Protect from sun and rain

- **Use a continuous mixer**
  - Use protective clothing and masks

- **Use a mixer**
  - Shelf life 12 months

- **Can use a plastering machine**
  - Refer to the technical data sheet

- **Mix before apply**