Rasante Ter 1 Plus

Universal mortar for restorations

**PRODUCT DESCRIPTION**

Universal mineral finishing product for plaster with good covering capacity for the restauration and levelling of elevations even in historical buildings. To be applied in one single coat with a thickness of 3 to 30mm. As a rendering mortar for the restauration of old screeds where mesh reinforcement is used. As a levelling compound on regular and consistent bases. Not for wainscoting and in area subjected to splashes. Not to be used as a binder for insulating panels. To be used as mortar for old load bearing masonry walls (and also for alkaline resistant synthetic ones), old load bearing paints (and also for alkaline resistent synthetic ones), old mosaic coverings consistent and solidly anchored, and for non static gaps and cracks. Particularly suitable for the levelling of irregular and unevenly absorbent bases, of screeds of different thickness, and for plastering hot water heating wall pipes. Only mineral, vapor permeable finishing screeds must be applied on its hardened surface.

Ideal support for lime and silica based paints.

**PRODUCT CONTENT**

- Lime
- White cement
- Dispersion based binder
- Round grain fine limestone sand
- Fibre additives
- Additives to improve workability
- Organic binders 5%

**CHARACTERISTICS**

- Optimum worability
- Hardening with reduced tension
- Fibre reinforced
- Good adherence
- Reduced shrinkage

**Application**

**Temp of application**

During product preparation, application and drying the temperature of both the surrounding area and of the support must be not lower than +5 C and not higher than +30 C. During hardening and drying protect for seven days especially from frost.

**Supporting base**

The supporting base must be clean, solid, without any persistent umidity or dust, of good consistency and without any efflorescences, adhesive products and dirt of any kind. The supporting base must be thoroughly checked. Any damaged plaster must be removed. When working on historical building please consult the appropriate ... before removing any unstable plaster. If any of these section must be kept they must be preserved under the approriate regulation. In re to walled heating system the type of plaster needed depends on the kind of base that supports it.

Before applying Ter 1 Plus on old mortar it is necessary to verify the solidity of the support via picking test. Apply the mortar on at least two separate areas of approx 1m2 each covering the reinforced mesh. Once dry (at least 7 days) perform a picking test is performed and its evaluation as described in the documentation. Paintwork and non load bearing plasters must be removed. There is no need to pre-treat the support once wall heating systems have been attached on mineral supporting bases such as masonry clay bricks and full and perforated masonry blocks. No adhesion bridge is needed when applying the product on adequately cleaned and dried concrete screeds. Organic bases must be cleaned with water but the use of a a high
pressure jet washer should be avoided. Once cleaned with water it must be left to dry for approx 10 days, in favorable weather conditions. If a high pressure jet washer is used the drying time must be increased.

In the case of not very solid base that tends to crumble it is advisable to strengthen them with lime water based product, in other words with silicate primers.

**Preparation**

For manual prep add the required amount of water to the content of a pack and mix continuously in a cement mixer to obtain a smooth and lump free paste. Leave to rest for approx 10 min and then mix again. Do not mix again once the product has started to take.

**Application**

If applying manually use a spatula or a trowel. If used as a screed apply an approx 3mm layer and dip the reinforced mesh in its centre until totally covered. The reinforced mesh sheets must be layered with gaps of 10cm near point of junctions. If the application is done by mechanical means, spray the product with a plastering machine. Once applied level it with an aluminium screed. The last layer can be finished as a felted plaster by using a sponge float. Ter1 Plus can be levelled with a float immediately. The working time for the fresh mortar is 2 hours. During the set – especially where heating is used – it is important to insure that there are good condition for the drying and hardening of the product (e.g. creating ventilation in the form of adequate draft and breeze). It is not advisable to dry the mortar through direct heat sources as this could cause problems. Any remaining unused material must not be reused nor mixed with fresh mortar and must be disposed of appropriately.

**Warnings**

Not suitable for large ceramic or heavy natural stone surfaces. It is possible to be used for the setting of small tiles in area of ... humidity levels (i.e. kitchens or toilet rooms) as long as the mortar has been left to dry for an adequate time (approx 4 weeks). In more wet and humid areas (subjected to water splashes) limestone mortars are not advised. In order to reduce the danger of cracks in wall heating systems plasters it is advisable the use a reinforced mesh. Using water vapour and carbon dioxide permeable paints will help achieve a well controlled room temperature.

**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 working with the product.

**Storage**

Keep in a dry place, ideally on wooden shelves. Use by: min. 12 months

**Technical data**

<table>
<thead>
<tr>
<th>Product code:</th>
<th>TER1FBMPLUS</th>
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</thead>
<tbody>
<tr>
<td>Packaging:</td>
<td>25kg/cf.</td>
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<tr>
<td>Quantity per pack:</td>
<td>0 - 1 mm</td>
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<tr>
<td>Consumption:</td>
<td>approx 1.45kg/m²/mm</td>
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</tbody>
</table>

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 7.5lt/cf |
| Min layer thickness: | 3 mm |
| Bulk density of mortar dried at 105 °C (EN 1015-10): | approx 1.400 kg/m³ |
| Specific weight of wet mortar (EN 1015-11): | approx 1.800 kg/m³ |
| Apparent density: | approx 1.350 kg/m³ |
| Coefficient of permeability to water vapour µ (EN 1015-19): | 15 - 20 |
| Thermal conductivity λ 10, dry (EN 1745:2002): | 0.47 w/mK (chart value) per P=50% |
| Thermal conductivity λ 10, dry (EN 1745:2002): | 0.54 w/mK (chart value) per P=90% |
| Ph values: | approx 12 |
| Specific heat: | approx 1kJ/kg K |
| Compression resistance (28 days) (EN 1015-11): | approx 3 N/mm² |
| Flex resistance (28 days) (EN 1015-10): | > 1 N/mm² |
| Adhesion to the sub floor (EN 1015-12): | ≥ 0.2 N/mm² |
Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Elastic module:</td>
<td>approx 3,500 N/mm²</td>
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<tr>
<td>Water absorption (EN 1015-18):</td>
<td>≥ 2kg/m² 24h</td>
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<tr>
<td>Fire reaction (EN 13501-1):</td>
<td>A1</td>
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<tr>
<td>GM (EN 998-1)</td>
<td>GP CS II W0</td>
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<tr>
<td>Max layer thickness:</td>
<td>30 mm</td>
</tr>
<tr>
<td>Drying time:</td>
<td>approx 10 days</td>
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</tbody>
</table>

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.

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 products.

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.

Icons

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

- **Interior/Exterior/Ceiling**
  - Use a plastic finishing trowel
  - Self levelling

- **Interior/Exterior/Floor**
  - Do not apply in temp below 5°
  - Do not apply in temp below 5° and over 30°

- Manually workable
  - Use a continuous mixer
  - Use protective clothing and masks

- **Use a mixer**
  - Protect from sun and rain
  - Shelf life 12 months

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

- Mix before apply