



TIKKURILA

# FINNSECO RUISKULAASTI

FIBER-REINFORCED MORTAR WITH CEMENT USED AS A BINDER, SUITABLE FOR SPRAYING

## DESCRIPTION

Fiber-reinforced mortar with cement used as a binder, suitable for spraying; maximum grain size: 3.0 mm. SILKO-approved (3.231).

## RECOMMENDED USES

Residential, commercial, industrial and storage buildings and others.

## PRODUCT FEATURES

Increasing the protective concrete cover and structural thickness. Vertical jointing of precast concrete elements, jointing of natural stone walls. Also suitable for manual application.



The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

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## TECHNICAL DATA

|                                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Colour Shades</b>               | Grey.                                                                                     |
| <b>Coverage</b>                    | Approx. 13 l of ready mix / 25 kg dry product. Coverage: about 2.0 kg/m <sup>2</sup> /mm. |
| <b>Can sizes</b>                   | 25 kg, 1000 kg                                                                            |
| <b>Mixing ratio</b>                | Water requirement: 3.5 – 4.0l water/ 25kg dry product.                                    |
| <b>Pot-life (+20°C)</b>            | approx. 1 hour.                                                                           |
| <b>Density (kg/l)</b>              | Ready mix around 2 kg/l.                                                                  |
| <b>Adhesive strength (EN 1542)</b> | > 1.5 N/mm <sup>2</sup>                                                                   |
| <b>Compressive strength</b>        | 28 days approx. 40 N/mm <sup>2</sup>                                                      |
| <b>Storage</b>                     | In dry place (away from floor), protect from humidity.                                    |

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## APPLICATION INSTRUCTIONS

### Application conditions

The temperature of air, mortar and substrate must be at least +5 °C. Avoid working when it is hot or in direct sunlight.

### Mixing components

Amount of water to be used: 3.5–4.0 l water / 25 kg dry product.

### Surface preparation

Old concrete surfaces are cleaned mechanically and pressure cleaned. Moisten the substrate before starting. When starting casting, the surface must be rough, matte damp and absorbent.

## PREPARING THE MORTAR

Add the dry material to the water and mix with a concrete mixer for around 10 minutes. If you use a power mixer, 1-3 minutes of mixing is enough. Let the mix stand for approx. five minutes, then re-mix briefly. Find the right consistency for the mortar when re-mixing the first batch by adding the final amount of water, if necessary. For this reason, you should not measure the maximum amount of water into the mixing container at the start. You can also use an auger mixer for mixing.

### Application

Spraying:

The thickness of a layer with single spraying on large surfaces is 10-30 mm. Thicker layers are applied in several layers so that the lower layer is allowed to dry for approx. one day before the next layer is applied. The mortar layer can be cut with a cotter pin, but only the final surface can be float finished smooth. Holes are filled by spraying max. 100 mm. The amount of water in the concrete is right when the sprayed mix does not run.

### NOTE:

Regular working methods, the designer's instructions and regulations must be followed when working with molds, and casting.

### Aftercare

Mortar must always be maintenance treated with moisturizing the surface with clean water and/or covering the surface with plastic for 2 to 5 days, depending on the circumstances.

### Cleaning of tools

Clean tools immediately after use with water.

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EN 1504-3:2006

|                                                                                   |                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------|
|  |                                                  |
| 0416                                                                              |                                                  |
| Tikkurila Oyj<br>Kuninkaalantie 1<br>FI-01300 Vantaa                              |                                                  |
| 16                                                                                |                                                  |
| TIK-1630-5015                                                                     |                                                  |
| EN 1504-3:2006                                                                    |                                                  |
| Product for protection and repair of concrete structures –<br>Structural repair.  |                                                  |
| Restricted shrinkage /expansion                                                   | $\geq 1,5 \text{ N/mm}^2$                        |
| Capillary absorption                                                              | $\leq 0,5 \text{ kg/(m}^2 \cdot \text{h}^{0,5})$ |
| Carbonation resistance                                                            | approved <sup>1)</sup>                           |
| Coefficient of elasticity                                                         | $\geq 15 \text{ kN/mm}^2$                        |
| Chloride ion content                                                              | $\leq 0,05 \%$                                   |
| Skid resistance                                                                   | NPD                                              |
| Coefficient of thermal expansion                                                  | NPD                                              |
| Adhesion after thermal compatibility                                              | NPD                                              |
| Reaction to fire                                                                  | A 2                                              |
| Compressive strength                                                              | Class R3                                         |
| Adhesion strength by pull off test                                                | $\geq 1,5 \text{ N/mm}^2$                        |
| Release of dangerous substances                                                   | NPD                                              |

1) When the mortar is coated with a coating for concrete protection complying with EN 1504-2, method 1.3.

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