

# Temafloor 402M

## DESCRIPTION

A two-component solvent-free, low emission, encapsulation epoxy primer.

## PRODUCT FEATURES AND RECOMMENDED USES

- The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS
- Suitable for the encapsulation of harmful substances (VOC, PAH, radon) on concrete substrates
- Recommended for dust binding and priming of new and old concrete floors under Temafloor® epoxy and polyurethane coatings
- Penetrates well into the pores of the concrete sealing the substrate and giving good adhesion for coatings and screeds
- Filled with sand also suitable for patching of concrete floors
- Ready to use without thinning

## TECHNICAL DATA

### Volume solids

approx. 100%.

### Specific gravity

1.1 kg/l (mixture)

### Mixing ratio

By volume

Base	2 parts by volume	Temaflow 402M
Hardener	1 part by volume	Temaflow 402M Hardener

By weight

Base	2,2 parts by weight	Temaflow 402M
Hardener	1 part by weight	Temaflow 402M Hardener

Note! Mixing ratio by weight was calculated base on average density of the components.

### Pot life (+23°C)

Approx. 20 minutes after mixing, on substrate.

### Practical coverage

Coverage on concrete floors is on the average:

Primer 5–8 m²/l

Practical coverage depends on the porosity and evenness of the substrate and on the application method.

### Drying time (+23°C)

Dust dry after 6 hours

Recoat after 16–24 hours

Fully cured 7 days

### Application method

rubber trowel, roller

### Cleaning of equipment

Thinner 1029

### Colors

Colorless to reddish

### Thinning instructions

It is not recommended to thin Temafloor 402M.

### VOC

VOC 2004/42/EC (cat A/j) 500 g/l (2010)

Temaflow 402M: max. VOC < 500 g/l

### Can sizes

20,0 L



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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	<p>Always remove all grease, oil, and other impurities with Maalipesu detergent before grinding. Remove laitance or old peeling paint layers by power grinding, milling, or vacuum grit blasting. Choose the method best suited for the premises. Clean out pot holes removing all loose or brittle material. Open cracks with e.g. an abrasive tool. After mechanical pre-treatment remove all loose material and dust carefully with a vacuum cleaner.</p> <p>The substrate must have a tensile strength above 1.5 MPa. For application on cementitious leveling screed: check compatibility with the leveling screed manufacturer.</p>
<b>Application conditions</b>	<p>The relative humidity of the concrete should not exceed 97%. Residual moisture content should be below 4 weight-%. The temperature of the ambient air, surface or coating should not fall below +15°C during application or drying. Relative humidity of air should not exceed 80%.</p>
<b>Mixing components</b>	<p>First stir base and hardener separately. Mix the correct proportions of base and hardener thoroughly (approx. 2 minutes to get homogenous mixture) by using a low speed industrial hand drill with a paddle. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface, weaken the properties of the coating and risk the success of the application.</p>
<b>Priming</b>	<p>Pour the priming mixture onto the floor and apply as much as is needed to impregnate the concrete surface. If necessary, repeat priming to get a non-porous surface. A porous priming coat will result in holes and air bubbles in the finished coating. Subsequent treatment can be carried out using "wet-on-wet" technique.</p> <p>Note: When using Temafloor 402M in encapsulation of harmful substances, it is important to ensure even, continuous film that covers all pores and cracks. Based on research done, it is recommended to apply minimum of 600 g/m<sup>2</sup> (appr. 0,55 l/m<sup>2</sup>) of material in two separate applications to fulfil the quality demand.</p>
<b>Patching</b>	<p>Patch pot-holes and cracks with a mixture of unthinned Temafloor 402M epoxy primer and dry, clean sand. Mixing ratio e.g. 1 part by volume of primer mixture and 1–2 parts by volume of sand of grain size 0.1–0.6 mm. Sand the patched areas before topcoating, if necessary.</p> <p>Note! Concrete surface should always be primed before patching.</p>
<b>Topcoating</b>	<p>Topcoating should be done within 16–24 hrs after priming. If the primed surface is not overcoated within 24 hrs, it should be abraded.</p> <p>Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.</p>

<b>HEALTH AND SAFETY</b>	<p>Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p>
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**For industrial and professional use only.**



## Temafloor 402M

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.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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## EN 1504-2

The European harmonized product standard EN 1504-2:2004 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the tables 1d, 1f and 1g in the appendix ZA.

CE	
0809	
Tikkurila Oyj Heidehofintie 2 FI-01300 Vantaa	
21	
0809-CPD-0773	
TIK-A059-2021	
EN 1504-2	
Product for protection and repair of concrete structures – Coating.	
Permeability to CO <sub>2</sub>	$s_D > 50 \text{ m}$
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot h_{0,5}$
Reaction to fire	Bfl-s1
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Release of dangerous substances	NPD
Permeability to water vapour	Class II, $5\text{m} < s_D < 50\text{m}$