

## TC172 FOR DRY CONCRETE SURFACE

### Temafloor 25 Clear Temafloor PU

Coating system TC172 is suitable for new and old concrete floors exposed to moderate chemical and mechanical stress in industrial and storage facilities, repair shops; e.g. process or paper machine units and corridors. Good resistance to abrasion and different chemicals, and dilute solutions of non-oxidizing acids, alkali and salt solutions. Heat resistance in immersion + 60 °C.

Stress categories/durability according to PSK 2703	Tikkurila Industry code	Treatment
<b>Dry concrete surfaces</b>		
<b>Stress category BC3</b> Constant medium mechanical stress, eg. constant foot traffic and occasional forklift traffic. Withstands washing with water and stain removal with neutral detergents. Coating appearance grade Ps2.	<b>TC172</b> Temafloor 25 Clear Temafloor PU	<b>PUR500-D/GD2</b>  1-2 times <u>500 µm</u> Yht. 500 µm
<b>Stress category BC4</b> High mechanical stress, eg. constant forklift traffic and point load stress. Withstands stress from splashes of process chemicals < 30 °C. Coating appearance grade Ps2.	<b>TC172</b> Temafloor 25 Clear Temafloor PU	<b>PUR2000-D/GD2</b>  1-2 times <u>2000 µm</u> DFT 2000 µm

#### Marking of paint systems according to standard PSK 2703 e.g. TC172-PSK 2703/FS3.2 PUR500-D/GD2

#### COLOURS

Grey, TVT 0229.

**SURFACE PREPARATION****Stress category BC3, preparation grade GD2 (PSK 2703)**

Remove oil, grease, chemicals and other impurities from the surface with a suitable method. Remove old coating, laitance and peeling paint layer from the floor surface so that the fine aggregate is exposed throughout. At day-work joints, expansion joints, floor gullies and corner reinforcements bevel the edges of concrete substrate slabs 30 to 70 mm for the entire length of the joint. Clean holes and cracks in the surface before coating and fill them with a filler screed compatible with the coating system.

**Stress category BC4, preparation grade GD2 (PSK 2703)**

Remove oil, grease, chemicals and other impurities from the surface with a suitable method. Remove old coating and surface layer from the floor surface so that the coarse aggregate is exposed throughout. At day-work joints, expansion joints, floor gullies and corner reinforcements bevel the edges of concrete substrate slabs 30 to 70 mm for the entire length of the joint. Clean holes and cracks in the surface before coating and fill them with a filler screed compatible with the coating system.

**APPLICATION CONDITIONS****Dry concrete surface TC172**

The relative humidity of the concrete should not exceed 97 %. 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 %.

**APPLICATION****PRIMING**

Prime using 30 - 50 % with Thinner 1061 thinned Temafloor 25 Clear polyurethane varnish. Pour the mixture onto the floor and apply as much as is needed to impregnate the surface. If necessary, repeat the priming to get a non-porous surface. Subsequent treatment may be carried out after 2 h using "wet-on-wet" technique. A porous priming coat will result in holes and air-bubbles in a finished coat. Scatter sand on the fresh primer coat to ensure the screed adhesion.

**PATCHING**

Patch pot-holes and cracks with unthinned Temafloor 400 epoxy varnish and dry, clean sand. Mixing ratio e.g. 1 part by volume of epoxy mixture and 1 - 2 parts by volume of sand of grain size 0.1-0.6 mm. Grind the patched areas before overcoating.

**COATING**

Overcoating may be carried out not earlier than 6 hrs and not later than 24 hrs after priming and patching. If the primed surface is not overcoated within 24 hrs, it should be abraded. Pour the coating mixture onto the floor and spread it with a trowel and a roller. Recommended thickness of a layer is 0.5 - 2.0 mm. Level the screed with a spiked roller approx. 10 - 20 min after application. Spiked roller helps removing air bubbles from the coating.

**TOP LACQUERING**

Top lacquering may be carried out if necessary using Fontedur FL Matt lacquer.

**PRODUCT INFORMATION**

More detailed information in respective data sheets.

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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.