Temafloor 310 ESD Primer

DESCRIPTION

A solvent-borne, two-component, electrically conductive epoxy primer.

PRODUCT FEATURES AND RECOMMENDED USES

- Used for priming of Temafloor 4000 ESD grinding screed. Surface-to-ground resistance <150 kΩ

TECHNICAL DATA

Volume solids

approx. 70%

Specific gravity

1.1 kg / litre ready for use mixture

Mixing ratio

Base	2.5 parts by volume	Temafloor 310 ESD Primer
Hardener	1 part by volume	008 4540

Pot life (+23°C)

30–60 min after mixing on substrate

Practical coverage

Practical coverage depends on the porosity of substrate and applied method. Approximate coverage: 0.3 mm coating = 3.3 m²/l

Drying time (+23°C)

Dust dry after 8 h
Recoatable 24–48 h
Fully cured 7 d

At lower temperatures the curing process will last longer

Thinners

Thinner 1031, Thinner 1029

Cleaning of equipment

Thinner 1029 (or Thinner 1031).

Finish

Matt.

Colors

Black

VOC

VOC 2004/42/EC (cat A/j) 500 g/l (2010)
Temafloor 310 ESD: max. VOC < 500 g/l

Can sizes

20,0 L

Temafloor 310 ESD Primer

APPLICATION INSTRUCTIONS

Surface preparation

New concrete: Remove laitance by power grinding or hydrochloric acid etching. Choose the method best suited for the premises. After grinding remove dust carefully with a vacuum cleaner. Hydrochloric acid etching is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse with plenty of water. Dry the floor.

Old concrete: Remove all grease, oil, chemicals and other impurities by Maalipesu detergent. Remove old peeling paint layer by grinding. Choose the method best suited for the premises. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.

Application conditions

The relative humidity of the concrete should not exceed 97%. The temperature of the ambient air, surface or coating should not fall below +10ºC during application or drying. Relative humidity of air should not exceed 80%.

Note! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.

Mixing components

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. Thin the mixture 20–30% with Thinner 1029.

Priming

Prime using Temafloor 200, Temafloor 400 or Temafloor 220W epoxy varnish thinned 20–50% with Thinner 1029 or Fontefloor EP Primer epoxy varnish thinned 20–50% with water. Pour the varnish 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 after 2 hours using "wet-on-wet" technique.

Patching

Patch pot-holes and cracks with Colofill or unthinned Temafloor 200 Primer varnish mixed with clean, dry sand. Mixing ratio e.g. 1 part by volume of varnish mixture and 1–2 parts by volume of sand of grain size 0.1–0.6 mm. Sand the patched areas before overcoating, if necessary.

Note! Concrete surface should always be primed before patching.

Connection to earth

The floor primed with Temafloor 200 Primer should be connected to earth with copper coils. The installation of copper coils is designed according to site. Glue the copper coils, the area of which should be at least 20cm², to the surface primed with Temafloor 200 Primer. Use flexible coils at joints. The coils should be connected to earth. Connection points of walls must be treated with isolating material.

ESD priming

Pour the well stirred mixture of Temafloor 310 ESD Primer onto the floor, apply with a rubber trowel and level with a roller. ESD priming should be carried within 6–24 hours after priming with Temafloor 200 Primer epoxy varnish. If the surface is not overcoated within 24 hrs, it should be abraded.

HEALTH AND SAFETY

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.
A health and safety data sheet is available on request from Tikkurila Oyj.

For industrial and professional use only.

Temafloor 310 ESD Primer

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.