

TECFLOOR® CPS- TC

High Chemical, Abrasion & Thermal Shock Resistant, Polyurethane Based Flooring for Car Parks THERMAX



Tecfloor® CPS- TC is a UV Stable Polyurethane Top Coat. It is a three part (resin, hardener and filler), polyurethane system which has excellent adhesion to concrete surfaces and cures to form a hard film. It penetrates into the surface to bind together the particles to produce a hardwearing and impermeable surface. It is supplied in pre-weighed packs and only requires mixing on site.

Uses

Tecfloor® CPS- TC provides a hardwearing, chemical, abrasion and thermal shock resistant floor finish.

It can be used as hard wearing coating in areas where a high degree of abrasion resistance is required e.g. car park areas, garages, bridge decks, traffic aprons at airport etc.

Benefits

- **High Abrasion Resistance-** Durable, low maintenance cost.
- **UV Stable-** Excellent UV and weather resistance.
- **Chemical Resistant-** Proven against a wide range of industrial chemicals.
- **Slip Resistant-** Different textures available to suit conditions.
- Seamless crevice free surface
- Anti-fungal and Anti-algal
- **Impervious-** Provides effective resistance to water.

Technical Support

Thermax provides a free technical advisory service supported by a team of specialists in the field.

Properties

Nature	Three Components
Drying Time	16-24 hours
Abrasion Resistance	300mg loss per 1000 cycles
Adhesion Strength (ASTM D 4541)	> 1.5MPa Concrete Failure
Tensile Strength 7 days (ASTM C 307)	~ 20MPa
Full Cure	7 days

Instructions for Use

Surface Preparation

The long term durability of any resin floor system is determined by the adhesive bond achieved between the flooring material and the substrates. It is essential that TECFLOOR® Car Park System is applied to sound, clean and dry concrete surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product. Surface to be made rough by using tools like grinder / scarifier / shot blasting machine etc.

New Concrete Floors

The floor concrete should be at least 28 days old and give a hygrometer reading not exceeding 75% RH, when tested in accordance with BS 8203 Appendix A. It should be sound, of compressive strength above 25N/mm² and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Laitance should be removed by light mechanical scabbling, grinding, scarifying or shot blasting.

Old Concrete Floors

Where deep seated contamination has occurred, mechanical methods such as blasting, grinding or scabbling should be used to provide a suitable clean surface.

Priming

TECFLOOR® CPS- PR shall be used as primer to seal the pores on surface.

Mixing

Empty the entire resin, hardener component into the vessel and mix until homogeneous mix formed. Then while mixing slowly, add the fillers. Mixing of all components shall continue for a further 3-4 minutes, until such time that a homogenous mix is achieved by using slow speed drill with helical spinning head or other suitable mixing equipment.

Laying

Using a good quality nylon brush or a medium 3/8' pile roller applying the mixed material on the floor surface until an even coverage is obtained. Ensure the loose

TECFLOOR[®] CPS- TC



pile on the roller is removed before use. Avoid application below 5°C and above 35°C.

Also avoid application in foggy conditions. The second coat can be applied when the first coat is tack free. For anti-skid finish 2-3 coats may be required. Do not add solvent / thinners at any time.

Limitations

TECFLOOR[®] CPS- TC should not be applied when temperatures below 5°C and falling or when the relative humidity is more than 80%. Substrates should be fully dry and not suffer, or be likely to suffer, from rising dampness. If necessary, suitable damp-proof membranes should be installed to prevent this. Substrates should not have moisture content greater than 5% at any time during the installation.

Cleaning

All tools and equipment's should be cleaned with solution immediately after use. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

Health & Safety Instructions

Contact with skin and eyes should be avoided. Use of gloves, goggles and masks are recommended. If contact with skin occurs it should be washed with plenty of water and soap. Do not use solvent. In case of eye contact wash with clean water and seek medical advice.

Storage

TECFLOOR[®] CPS- TC has a shelf life of 6 months when stored in a dry place below 30°C in its original & unopened condition. Keep the container of TECFLOOR[®] CPS- TC away from direct heat.

Packing

Tecfloor[®] CPS- TC: 4ltr pack
Tecfloor[®] CPS- PR: 4ltr packs

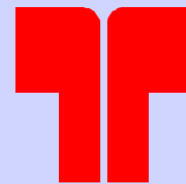
Consumption

TECFLOOR[®] CPS- TC
0.25-0.35 kg/ m² at 0.25 mm thickness
0.5-0.75 kg/ m² at 0.5 mm thickness

TECFLOOR[®] CPS- PR

0.25 - 0.35 kg/m² at 0.25mm thickness
0.1-0.15 kg/m² at 0.1-0.15mm thickness

However, the actual coverages will vary depending on the substrate conditions.



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Thermax Business Portfolio

Chemicals

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Air Pollution Control

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Water & Waste Solutions

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Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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