

Heavy duty polyurethane flooring

Product Data Sheet

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DESCRIPTION

ECF TG69 is a water-based polyurethane resin screed designed to provide excellent heavy duty usage with resistance to thermal shock, abrasion and chemical attack in aggressive industrial environments.

ECF TG69 surfaces are stable to steam cleaning and resistant to boiling water and process liquids up to 100°C when applied at 9mm nominal thickness. A matt, textured surface is provided that is both seamless and possesses good anti-slip properties.

ADVANTAGES

1. High chemical resistance
2. Resistant to hot water and steam cleaning
3. Self-sealing
4. Anti-slip finish
5. Matt finish
6. Extremely hard wearing
7. Non-taint

WHERE TO USE

All areas where high wear, combined with high chemical resistant floors are required, which are seamless and easy to maintain, including:

Food manufacture and processing
 Chemical plant processing
 Medical and veterinary practice
 Breweries, Dairies and Animal Husbandry
 Heavy duty plant and traffic areas
 Engineering etc.

ECF Thane has been tested and approved by the Campden & Chorleywood Food Research Association.

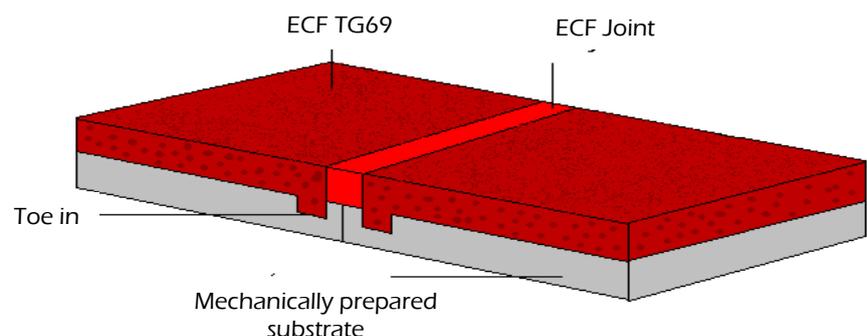
GRADES AVAILABLE

TG69 - Standard which provides a textured finish with a medium grade blend of aggregates.

TGF69 - Which provides a textured finish with a fine grade blend of aggregates.

TGC90 - Which provides a textured finish with a coarse grade blend of aggregates.

ECF TG69



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CHEMICAL RESISTANCE

Excellent resistance to both organic and inorganic acids, alkalis, fuel and hydraulic oils, aromatic and aliphatic solvents etc.

Prolonged exposure to high concentrations of some chemicals may adversely affect surface finish and colour, whilst not affecting the function of the floor.

Please refer to chemical resistance table Ref. RTCT.

PHYSICAL PROPERTIES AT 20°C

Pack Size 30 kg. units

Coverage rates per 30 kg. unit

6mm nominal thickness - 2.5 sq.m.
9mm nominal thickness - 1.67 sq.m.

Pot life incl. aggregate

15 minutes (8 min at 25 C)

Tack free time Light traffic

4-6 hours 12-16 hours

Heavy Traffic Full Cure

24 hours 3-5 days

COLOURS AVAILABLE

Salsa Kingfisher Blue Flint
Marigold Forest Green Stirling

NB : All polyurethane systems based on MDI will yellow with time this is a surface discolouration under the effect of UV light and does not in any way affect the durability of the floor finish

PREPARATION

To achieve the best performance from ECF TG69 the correct surface preparation is essential. Substrates must be clean, sound, dry and free of surface laitence. All surfaces must be prepared by vacuum blasting or mechanical abrasion.

To ensure the maximum bond is achieved, grooves must be cut into the perimeter of the subfloor, typically 20mm deep by 8mm wide. These should be inset approximately 150mm from, and running parallel with the walls and adjacent to any doorways, plinths etc. including any finished edge, i.e. both sides of a daywork joint. The groove must have a neat square edge and the ECF TG69 laid in to the full depth, forming a perimeter anchorage.

Steel decking must be clean, sound and properly supported to prevent flexing. Deckplate of less than 4mm is not recommended. Surfaces should be shotblasted to SA2.5 (bright steel) and primed with ECF Prime ZP. Priming should be extended to 100mm above the screed level where a coving is installed.

APPLICATION

Air temperature 5-20°C, Humidity 90% RH Maximum. Do not pre-warm this product as working times will be substantially reduced if materials are warm.

Surfaces should be primed with ECF Contract Primer, at an average rate of 5 sq.m. per kg. ECF Dampshield should be applied if the relative humidity of the concrete is greater than 75% RH at 4 sq.m. per kg.

When the surface is tack free ECF TG69 should be applied at the required rate, as soon after mixing as possible. (Delay can result in variation in surface finish, and application problems.)

NB. Cure times are extended at low temperatures.

Mix the coloured base component to an even consistency, ensuring the re-dispersion of any settled pigment. Thoroughly scrape the contents of the base and hardener components into the same container and mix thoroughly for one minute. Pour the combined base and hardener into a rotary drum mixer and add the aggregate component steadily, until a homogeneous mix of the three components is achieved. Apply to pre-primed areas and level between battens as necessary, with a steel float. Where ease of cleaning is the prime requirement rather than slip resistance, the final finish can be smoothed by back-rolling with a short nap roller. A single pass with the weight of the roller is usually sufficient.

MAINTENANCE

Regular cleaning of the finished screed is recommended in order to maintain the slip-resistance and aesthetic properties of the floor. Mild detergents in combination with pressure washing/steam cleaning may be employed (when applied at 9mm thickness). This product is laid as a resin rich finish, which when laid will be a uniform colour. When the floor comes into service white stones will show through the surface as part of the wearing finish. This is normal and constitutes a part of the slip resistance of the finish.

HYGIENE

ECF TG69 is formulated from materials designed to achieve the highest level of performance as safely as possible. However, specific components require proper handling and suitable equipment, this information is given in the relevant safety data sheets. In all cases, spillage or skin contamination should be cleared as soon as possible, by dry wiping of the affected area, and thorough washing with soap and water.

Consult Safety Data Sheet Ref. HSCS.

The information given in this data sheet is derived from tests which are believed to be reliable. The information is offered without guarantee to enable purchasers to decide more readily by their own tests, the suitability of the product for their particular application. Any specification or advice given by the company is based on the information supplied by the purchaser. ECF Ltd cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertaking can be given against infringement of patents.