

ECF Tile

Light-fast high chemical resistant floor coating

Product Data Sheet

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DESCRIPTION

ECF TILE is a high grade, two-pack, hard wearing polyurethane floor coating designed for maximum chemical resistance which is light-fast and flexible. ECF TILE has good resistance to impact abrasion and trafficking. The system is resistant to high temperatures up to 150°C. Slight discolouration may occur at extreme temperatures.

ADVANTAGES

1. Maximum chemical resistance
2. Seamless
3. Good abrasion and impact resistance
4. Easy cleaning, including removal of graffiti
5. Light-fast
6. Resistant to thermal shock & hot water
7. Hygienic - does not support fungus or bacterial growth
8. Attractive range of colours available

GRADES AVAILABLE

ECF TILE STANDARD

For general usage produced as a semi-gloss finish.

ECF TILE MATT

Matt finish grade of ECF TILE produced as a three-pack product.

WHERE TO USE

ECF TILE is ideal where a seamless finish is required in such environments as:

Food preparation and manufacturing areas, laboratories, chemical plants, aircraft hangars, vehicle maintenance bays, abattoirs, breweries, mortuaries, bakeries, toilets, operating theatres and all areas where a long lasting, easily cleaned, high chemical resistance finish is essential.

CAUTION: Because of the solvents in ECF TILE, the product should not be applied near, or in the presence, of open food.

PHYSICAL PROPERTIES

Solids Content
approx. 60%

Coverage
7-8 sq.m. per lt. per coat

Dry film thickness
75 microns at a coverage rate of 8 sq.m. per lt.

Pot Life at 20°C
40 minutes

Tack free time
2 hours at 20°C

Hard film time
6 hours at 20°C

Full chemical resistance
5 days at 20°C

Application temperature limits
+ 5° to 30°C

Shelf life
6 months at ambient temperature

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PREPARATION

All surfaces to be coated with ECF TILE should be clean, dry and free from oil, grease etc.

PRIMING

Apply onto the properly prepared surface a coat of ECF SEAL W.B. CLEAR.

MIXING AND APPLICATION

Mix the base and hardener thoroughly together, ideally by slow speed mechanical mixer, scraping all loose material with a knife from the sides and base of the container to ensure a complete mix is obtained. Apply by brush, roller or spray. When dry and within a maximum period of 18 hours after drying, apply the second or subsequent coat of ECF TILE. Due to the pot life of ECF TILE the whole of the material has to be used when mixed within the time period.

CLEANING

Tools, brushes and mixing machines should be cleaned as soon as possible with ECF. P.U. Solvent. Do not allow to set hard.

TECHNICAL DETAILS

Samples of ECF TILE were tested by CAPCIS, an independent testing company. CAPCIS stated that the results indicated below showed good performance as a hard wearing floor coating.

(A) WATER VAPOUR PERMEATION

Tested to ASTM E96-80, water transmission of materials - desiccant method. Average permeability value - $2.38 \times 10^{-3} \text{g/mm/h/m}^2/\text{mm Hg}$.

B) LINEAR CO-EFFICIENT OF THERMAL EXPANSION

Extension rod dilatometry method - 15°C - 30°C . Co-efficient of thermal expansion for the above temperature interval - $7.5 \times 10^{-5}^{\circ}\text{C}$.

C) HARDNESS MEASUREMENT

Tested to ASTM D.2240-85 with Shore D Durometer. Average result from readings - 50.5 Shore D.

D) ADHESION TESTING

Tested to BS.3900 Part E.10.

(Pull off method), using Elcometer Model 106 adhesion tester. Lift force of pull-off readings - 233 psi.

E) TABER ABRASION

Tested to ASTM D.4060 (Taber method) using a CS17 abrasive wheel at 1000g. load for 1000 revolutions. Total weight loss - 79 micrometres.

F) IMPACT RESISTANCE

Tested to BS.3900 Part E7. (falling weight impact method). Average result obtained from 20 measurements - 154 micrometres.

Full details of all the above test results are available from Resin Surfaces Ltd.

HYGIENE

Due to the solvents present etc. smoking or naked lights should be prohibited and ECF TILE should not be applied in the presence of open food. Adequate ventilation should be provided and the use of barrier creams and wearing of glasses is recommended. ECF TILE should not be allowed to set on skin.

Consult Safety Data Sheet Ref. HSTL

The information given in this data sheet are derived from tests and experience with the products and is believed to be reliable. The information is offered without guarantee to enable purchasers to determine for themselves 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. East Coast Flooring Limited cannot be held accountable for errors or omissions as a result of that information being incorrect or incomplete. No undertakings can be given against infringement of patents.