

## EF70

### LEVEL 70 RAPID SETTING SMOOTHING AND LEVELLING FLOOR COMPOUND

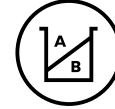
- + Apply From 2mm - 70mm in One Application
- + Rapid Setting, Walk On After 3 Hours
- + Tile On After 3 Hours
- + Suitable for Use Above Underfloor Heating Systems
- + Suitable As a Wearing Surface
- + Moisture Tolerant
- + Protein Free
- + Pumpable
- + Flexible, Fibre Reinforced
- + Smoothing and Levelling Compound



INTERIOR +  
EXTERIOR USE



WALKABLE  
After 3 Hours



MIXING RATIO  
20kg to 4 - 4.2  
Litres of Water



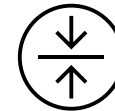
WORKING TIME  
15 - 20 Minutes



IDEAL TEMP  
5°C to 30°C



STORAGE  
12 Months



THICKNESS  
2mm to 70mm

#### ECO FUSION RAPID SET FLEXIBLE

is a premium, ultra-low carbon, cement free, highly flexible, rapid setting, fibre reinforced, free flowing, smoothing and levelling floor compound designed for preparing subfloors prior to installation of floor coverings. Level 70 can be applied from depths of feather edge to 70mm in one application. Due to its rapid setting and drying properties, tiles can be fitted in as little as 3 hours at 20°C.

Specially formulated to allow the product to be applied from depths of 2mm - 70 mm in one application without the need for additional aggregate, whilst still allowing, due to its rapid setting and drying properties, ceramic, porcelain, and natural stone tiles to be fitted from as little as 3 hours.

#### USES

Eco Fusion Level 70 can be used on a wide range of substrates including sand and cement screeds, concrete, timber, flooring grade asphalt/bitumen and existing ceramic, porcelain, and natural stone tiles. Eco Fusion Level 70 can be used on underfloor heating screeds, retro fit overlay underfloor heating systems and is ideal for encapsulating electric underfloor heating elements.

#### PREPARATION OF SUBSTRATE

Preparation of all substrates is crucial to the success and longevity of all installations. All substrates must be rigid, flat, clean, dry, and sound and be free of any contaminants. Anything that could compromise adhesion to the substrate, such as dirt, oil grease laitance, sealers, waxes and curing agents will need to be mechanically removed. Ensure all substrates and back grounds are strong enough to carry the weight of the compound as well as all finished floor covering and fixing materials.

Sub floors directly to earth must have a damp-proof membrane. Underfloor Heating must be switched off 48 hours prior to application.

Very porous surfaces (old/worn concrete) should be dampened with water to reduce suction prior to priming and laying the levelling compound. Surface where there is sub floor heating will require Self Level to be mixed with Eco Fusion Tilers Primer, diluted 3/1, and the heating source to be switched off at least 24 hours before application and then a further 28 days after.

#### PRIMING

Substrates require priming prior to the application of Eco Fusion Level 70. Priming the substrate will minimise the risk of pinholes forming, allow for the best flow properties and will also prolong the working time of the product.

**Porous Surfaces:** Suitably prepared and sufficiently dry substrates, prime with Eco Fusion Tilers Primer diluted 1 part Primer to 3 parts water. If the substrate is overly porous then further coats of diluted primer may be required. **Non-Porous Surfaces:** Substrates such as flooring grade asphalt & bitumen, steel and existing vinyl, ceramic, porcelain, and natural stone tiles should be primed with one coat of Eco Fusion Tilers Primer Plus. Primers should be used in accordance with instructions printed on the bottle and must be allowed to dry before applying Eco Fusion Level 70.

#### SCREEDS/CONCRETE

Ensure new concrete is dry by means of consistent moisture readings across the entire surface. Sand/Cement screeds must have a moisture reading of less than 75% RH before work can commence. If the screed is new, allow 1 day per mm for drying. Remove any laitance mechanically and remove all dust, ideally by vacuum. Sand/cement screeds must be primed to maintain the flow life and prevent air bubbles rising to the surface. Use Eco Fusion Tilers Primer diluted 3 parts water to 1 part Primer.

#### PLYWOOD

Plywood must be 18mm at a minimum, exterior grade, screwed (not nailed) to the substrate at 150mm centres. There must be sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the leveller, adhesive and final covering. As above, make sure the surface is free of loose dirt and dust. Plywood exposed edges and joints must be primed with Eco Fusion Primer and remainder primed with Eco Fusion Tilers Primer 3 parts water to 1-part Eco Fusion Tilers Primer.

#### ANYHYDRITE/GYPSUM SCREED

Ensure the Anhydrite Gypsum screed is confirmed dry via consistent moisture readings across the whole surface. Anhydrite screeds must have a moisture reading of less than 75% RH before work can commence. If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum. Anhydrite/Gypsum screeds must be sealed prior to applying Level 70 by applying two coats of Eco Fusion Tilers Primer, the first diluted 3 parts water to 1 part Eco Fusion Primer followed by a neat coat. Allow to dry between coats.

#### MIXING AND APPLICATION

A 20kg bag of Eco Fusion Level 70 requires 4 – 4.2 litres of water. Add the pre-measured water to a clean bucket and slowly add the

powder whilst mixing with an electric paddle. Mix until a smooth and lump free consistency is obtained. Do not add further water once mixed. Exceeding 4.2 litres of water per 20kg will result in water bleed, extended drying times, a weakened mix and poor surface finish.

**N.B:** Once mixed, Eco Fusion level 70 will remain workable in the bucket for 15 – 20 minutes at 23°C. Due to the rapid setting properties of Eco Fusion Level 70, it is important to apply the mixed product without delay. Pour the compound onto the prepared surface and trowel to the required depth of between 2mm and 70mm. If the depth of compound applied allows, the use of an aeration roller can be used, but is not required, to remove entrapped air and smooth out flow lines. The setting time will then depend on atmospheric conditions/temperatures - it will be slowed by lower temperatures and accelerated by higher temperatures.

**Mixing Ratio:** 20 kgs to 4 or 4.2 litres of water.

#### PUMP APPLICATIONS

Eco Fusion Level 70 is ideal for pump applications. Mix in accordance with the pump manufacturer's instructions and ensure that regular flow checks are carried out. Ensure the water content is correct and that there is no surface separation. Test samples of the product must be conducted to ensure the pump lines are able to send product through before the product starts to set.

#### SETTING AND COVERING

In ideal conditions, Eco Fusion Level 70 will be set to walk on after 3 hours. Eco Fusion level 70 must be left to dry before applying the final surface flooring. This is typically after 3 hours for ceramic, porcelain, and natural stone tiles. Thicker applications may require a longer time to dry prior to applying floor coverings. If there is no airflow within site conditions, the drying time may be restricted.

#### STORAGE

This product has a shelf life of 12 months if stored in its unopened packaging in normal dry conditions. Do not use below 5°C and do not use in areas subject to permanent water immersion.

#### HEALTH AND SAFETY

For more information and precautions for use refer to safety data sheet.

The Information given in this technical sheet is given in good faith. Eco Fusion cannot accept liability for loss or damage caused by the incorrect use of its products or poor workmanship. The user must ensure the product's suitability for the application intended and if in doubt should seek written technical advice for the product's application.

## TECHNICAL SUMMARY

CLASSIFICATION	CT-C30-F7 to BS EN 13813:2002
WORKING TIME @ 23°C	15 - 20 Minutes
TIME TO LIGHT FOOT TRAFFIC @ 20°C	3 hours
TILE	3 hours
APPLICATION THICKNESS	2mm – 70mm
COMPRESSIVE STRENGTH N/MM2 (BS EN 13892-2)	1 day > 10.0 7 day > 15.0 28 day > 30.0
COVERAGE	20kg will cover 4m <sup>2</sup> at 3mm thickness.
FLOW PROPERTIES USING 30MM X 50MM FLOW RING	135mm – 145mm
MINIMUM APPLICATION TEMPERATURE	5°C
SHELF LIFE	Stored correctly this product has a shelf life of 12 months.
COLOUR	White
PACK SIZE	20kg
MIXING RATIO	4 - 4.2 Litres per 20kg



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EN 13813:2002 CT-C30-F7

DoP: Level 70 Cement Free Floor Levelling Compound

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**FUNDAMENTAL CHARACTERISTICS:**

**REACTION TO FIRE**  
NPD

**RELEASE OF DANGEROUS SUBSTANCE**  
See SDS

**RELEASE OF CORROSIVE SUBSTANCE**  
CT

**COMPRESSIVE STRENGTHS**  
CT30

**FLEXURAL STRENGTH**  
F7

**DoP**  
Please See Our Website: [www.ecofusion.ie](http://www.ecofusion.ie)