

Ecoflor® MicroConcrete – Flooring. Issued: November 2023

INTRODUCTION

Description:

Ecoflor® MicroConcrete is a cementitious-based polymer modified 2-part cement resurfacing system. Ecoflor® MicroConcrete can produce a durable polished cement surface or textured slip-resistant decorative concrete surfaces. Ecoflor® MicroConcrete is natural white in colour and may be integrally coloured using Ecoflor® Colour In liquid colour pigments. Ecoflor® MicroConcrete achieves excellent compressive, flexural strength and has high abrasion resistance.

Types:

600 Cement 15KG Coarse Aggregate
 300 Cement 15KG Fine Aggregate
 Micro Cement 10KG Super Fine

Recommended Use:

Ecoflor® MicroConcrete is tested suitable as a decorative wear surface placed on existing plain concrete pavements, patching and repair mortars, levelling compounds, FC sheeting, timber and tiled surfaces, used for pathways, patios, pool surrounds (with anti-slip texture) or internal flooring, provided that the structural integrity of the underlying substrate is sound.

Features

- Transforms plain surfaces.
- Internal or external applications.
- Design flexibility – add style and value.
- 18 Colours
- Economical – saves cost of removal and reinstatement of existing concrete pavements in good condition.
- Negligible impact of existing pavement design loadings and finished levels- Ecoflor thickness is less than 2mm.
- Suitable for large and small projects – new concrete may be placed for construction site safety, access and mobility and afterwards resurfaced before handover at completion of works.
- Service life expectancy 20 years – subject to exposure conditions, resealing, and maintenance.

Technical Data

Colour	Natural White
Consistency	Fine powder
Composition	Polymer modified cement mortar
Maximum aggregate size: 600 Cement	600 Microns
Application Thickness	0.6mm – 1mm Per Coat
Application Tools	Steel trowels
Coverage Rate	1.5 – 2.5m ² Per KG Per Coat
Workability time at +23°C	20 minutes
Setting Time +23°C	60 minutes
Foot Traffic +23°C	2 hours
Compressive Strength (28 Days) AS 1012.9	20.5 N/mm ²
Flexural Strength (28 Days) ASTM C 580 - 02	6.2 N/mm ²
Final Cure	28 days
Shelf Life	12 months unopened, store in cool, dry conditions
Clean Up	Water
Packaging	600 + 300 Cement 15KG / Micro Cement 10KG

Tel: 1300 326 356

Email: Info@ecoflor.com.au

Address: 26 Progress Drive, Carrum Downs Vic, 3201

Technical Data Sheet

Precautions & Limitations:

Until hard-set has occurred, freshly finished surfaces must be protected from rain or damage from other sources. In windy conditions and on days of high ambient temperature (>28 degrees) and particularly if accompanied with low humidity, special precautions must be taken during product mixing and placement. The product should not be applied at ambient temperatures >33 degrees. Finished surfaces can be sealed after 16 hours following completion of the work.

Estimating Data

Ecoflor[®] MicroConcrete 600 Cement is to be applied as a base coat for flooring and pavements only.

Step 1. First coat. 15kg of Ecoflor[®] MicroConcrete 600 Cement mixed with 1.8 litres of water mixed with 1.8 litres of Ecoflor[®] Concrete Modifier + 200ml colour pack will cover approximately 20m² in a single coat application.

Step 2. Second coat. 15kg of Ecoflor[®] MicroConcrete 300 Cement mixed with 1.8 litres of water mixed with 1.8 litres of Ecoflor[®] Concrete Modifier + 200ml colour pack will cover approximately 25m² in a single coat application.

Step 3. Third coat. 10KG Ecoflor[®] Micro Cement mixed with 1.5 litres of water mixed with 1.5 litres of Ecoflor[®] Concrete Modifier + 200ml colour pack will cover approximately 30m² in a single coat application.

Mixing Instructions – Summarized:

Important Notice: Read mixing Instructions fully for proper understanding of the blending operation and how to achieve the desired mix consistency.

Ecoflor[®] MicroConcrete 600 Cement

Primer - 1-part Ecoflor[®] Concrete Modifier: 1 part water. Apply it by broom or roller. Allow it to dry.

15kg bucket – 1.8 litres water: 1.8 litres Ecoflor[®] Concrete Modifier for typical base coat. Do not exceed 4 litres including 200ml colour additive per 15kg bag. "Wet Mixes" 2L:2L typically used for squeegee application.

Ecoflor[®] MicroConcrete 300 Cement

Primer - 1-part Ecoflor[®] Concrete Modifier: 1 part water. Apply it by broom or roller. Allow it to dry.

15kg bucket – 1.8 litres water: 1.8 litres Ecoflor[®] Concrete Modifier for typical second coat. Do not exceed 4 litres including 200ml colour additive per 15kg bag. "Wet Mixes" 2L:2L typically used squeegee application.

Micro Cement

Primer - 1 part modifier: 1 parts water for priming over 300 Cement coat. Apply it by broom or roller. Allow it to dry.

10kg bucket – 1.5 litres water: 1.5 litres Ecoflor[®] Concrete Modifier for typical Finish Coat. Do not exceed 3.5 litres including 200ml colour additive per 10kg bucket.

Mixing Instructions:

Pour the correct portion of water into an empty pail, and then add correct portion of Ecoflor[®] Concrete Modifier. Briefly mix liquid then add Ecoflor[®] Liquid Colour Dispersion 200ml component and mix into the liquid. Then slowly add Ecoflor[®] MicroConcrete cement powder component whilst continually mixing.

Do not mix by hand. Use a mortar mixing paddle with an appropriate high speed electric drill or mixer. Mix at slow speed initially whilst adding the powder component and increase mixing speed. Continue to mix until lump free for 2-3 minutes.

Follow the step-by-step installation instructions for Ecoflor[®] MicroConcrete Flooring Application Procedure

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by Ecoflor[®] either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not Ecoflor[®] are responsible for carrying out procedures appropriate to a specific application.

Disclaimer

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