



TECHNICAL BULLETIN – TB108

LEVELLING OVER EXISTING EPOXY COATINGS

17th December 2024

INTRODUCTION & SCOPE

The ARDEX FLC topping system over epoxy coatings relies on the integrity, bond of the epoxy coating, and the compatibility of the epoxy coating to accept new coatings. Any loose, drummy, or flaking sections must be removed. Due to design characteristics, some epoxy coatings are unsuitable substrates for levelling compounds, so it is important to prepare a “Test Area” before installing any new coating or underlayment. Resin-rich epoxies are more difficult to bond to than filler-rich systems. The success of this system relies on the epoxy coating being perfectly clean and free of all grease, oil, sealers, wax etc., back to a squeaky-clean surface.

Always seek professional advice regarding a suitable commercial-grade detergent/degreaser with an automatic scrubbing machine that will hold all dirt, oil, grease, etc., in suspension until removal. It is essential to avoid dirt, grease, and oil migration via foot traffic from soiled areas back onto the cleaned area.

PROCEDURE

1. Ensure the epoxy coating is firmly bonded. If there is any doubt about the coating's integrity or adhesion, it must be removed by mechanical methods. This procedure only refers to epoxy flooring, and surfaces such as polyurethane or synthetic rubberized coatings must be fully removed. If in doubt, remove it. Refer to ARDEX Technical Bulletin TB041 for mechanical preparation methods if required.
2. Remove all grease, oil, polish, and any other contaminant using a film-less commercial-grade detergent/degreaser with an automatic scrubbing machine. Flush away all residues with copious amounts of clean water. Do not use solvents as they are toxic and flammable and can create problems with potential chemical attack damage to the epoxy surface.
3. Allow to dry completely.
4. Mechanically roughen the surface of the epoxy coating by sanding it with Carborundum paper, grit size 24-40.
5. Vacuum to remove all dust.
6. Prime with ARDEX P82 as per the product datasheet.
7. The suitable cement-based levelling compounds are ARDEX K15, ARDEX K12, ARDEX K125, ARDEX K275, or ARDEX K55. When used over epoxy coatings, metal, or wooden subfloors, the additive to be mixed with ARDEX K15, ARDEX K12, ARDEX K125, and ARDEX K275 is ARDEX E25 Resilient Emulsion (see ratios on the next page).
ARDEX K55 does not require the addition of ARDEX E25.
8. Install as per ARDEX product datasheet instructions. Minimum installation thickness 2 – 3mm
9. **Always install a test area to determine the product's suitability for intended use.**



Product	Weight powder kg	Litres ARDEX E25	Litres water
ARDEX K15	20	1.6	4
ARDEX K12	20	1.6	4
ARDEX K125	20	1.6	3.5
ARDEX K275	20	1.6	3.5

IMPORTANT

This Technical Bulletin provides guideline information only and is not intended to be interpreted as a general specification for the application/installation of the products described. Since each project potentially differs in exposure/condition, specific recommendations may vary from the information contained herein. For recommendations for specific applications/installations, contact your nearest Ardex Australia Office.

DISCLAIMER

The information presented in this Technical Bulletin is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of a product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

REASON FOR REVISION-ISSUER

Change of slogan and address

DOCUMENT REVIEW REQUIRED

36 months or whenever third-party suppliers change their recommendations.

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