

Synthetic resin floors



Synthetic resin floor finishes conduct heat well, making them ideal for use with underfloor heating. They provide a hardwearing, clean, seamless finish, available in a range of colours to suit individual project requirements.

Introduction

Synthetic resin finishes are usually manufactured from polyurethane, epoxy resin or methacrylate, often in combination. They typically have a thickness of 0.15mm to 6mm. The type and thickness of the resin used relates to the location in which they are to be laid, the durability required and the volume of foot traffic that they will encounter. Product life is often quoted as around 20 years.

Retrofit UFH and resin floor finishes

Nu-Heat LoPro™Max

Nu-Heat's LoPro™Max underfloor heating system provides a level, mirror finish suitable for resin floor finishes. To reduce the potential for small stress fractures a glass-fibre render mesh must be fitted to the castellated panel before pouring LoPro™ QuickSet self-levelling compound. Small stress fractures do not affect the strength of the floor.

Follow the resin supplier's recommendations on use of a primer and/or glass-fibre base coat.

Nu-Heat LoPro™10

The LoPro™10 underfloor heating system can also be used with a resin finish but requires careful preparation of the floor:

- Glue and screw the LoPro™10 panels to the sub-floor
- Prime the LoPro™10 panels with EcoPrim T (see Nu-Heat information sheet)
- Fit the resin supplier's recommended glass-fibre base coat on top of the LoPro™10 panels before applying the resin finish

New-Build UFH and resin floor finishes

Nu-Heat screed floor constructions with resin finishes (SC/SL series)

Resin finishes can be applied to any new-build, cement-based screed in conjunction with the supplier's recommended primer and/or glass-fibre base coat. The screed must be structurally sound and fully cured (a minimum of 28 days), flat, smooth, clean and dry, with an adequate damp proof membrane beneath the slab.

Seek advice from the resin supplier before installing over anhydrite screed.

Installing the resin

To ensure the correct floor finish will be achieved with appropriate detailing around door openings and walls, resin installation typically requires a specialist team to mix and install the product.

Resin floors are susceptible to water damage at installation stage and a damp sub-floor could affect the final colour and cause 'blooming'. It is therefore essential that the property, especially the sub-floor, meets the requirements of the installation contractor and product being applied.

Expansion joints in the LoPro™Max or concrete UFH layer should be mirrored through to the surface of the resin floor.

Floor heating guidelines

- ✓ The floor heating should be tested and working before installation of the resin
- ✓ The floor heating should have been switched off 48 hours prior to installation
- ✓ The floor heating should not be switched on for up to 7 days depending on conditions and manufacturers recommendations.