

# The Roof Reviver Professional Roof Coating System

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## Resins

When a paint is formulated, many factors are taken into account:

- Resistance to UV
- Resistance to blistering (permeability)
- Resistance to yellowing (diffusion)
- Water resistance
- Waterproofing
- Adhesion
- Cohesive strength & flexibility
- Durability
- Oxide compatibility

Out of the hundreds of resins available it becomes crucial the right decision is made. The best resins, contain 100% acrylic, however cross blending with styrene based acrylics is common. This helps make coatings cheaper, but the trade off then is their thermoplasticity qualities. Poor qualities result in softening in hot temperatures and brittleness in cold temperatures and frosts.

Particle size is also a factor. Large particle sizes for top coats, would not suit some primers which require penetration, and therefore a much finer particle size resin is employed.

Flexibility can be severely reduced over the years if coatings rely on external plasticising. These can then bleed out through weathering and evaporation and the result leads to adhesion failure and cracking of the coating.