CREATING TOMORROW’S SOLUTIONS

INDUSTRIAL COATINGS | METAL AND WOOD

BE BRILLIANT!
WITH OUR NEW LIQUID SILICONE INTERMEDIATE
A coating’s properties are mainly determined by the choice of binder. The use of organosilicon hybrid resins offers a unique property profile especially suited to challenging applications such as facade sheeting coatings or protective wood paints for outdoor uses.

SHINE – WHATEVER THE WEATHER

Good news! Now you can increase the weathering resistance of coatings while meeting low-VOC requirements, and benefit from a reduced reaction time. The key is SILRES® IC 368: a new solvent-free liquid silicone intermediate from WACKER.
SILRES® IC 368 is ideal for cooking with acrylic resins to produce binders. Just 15% improves the weathering resistance considerably without affecting mechanical properties such as hardness or adhesion.

The chemical link to the OH-functional acrylic polymer results in an almost water-clear silicone-acrylic resin that is ideal for clear coats in high-quality applications.

The results speak for themselves. SILRES® IC 368 retains gloss for longer under UVA exposure and improves weathering resistance. This extends the durability of the coating in outdoor applications, and reduces the need for repairs and repainting – helping to conserve valuable resources.

Benchmark: isocyanate-crosslinked acrylic with competitor A and SILRES® IC 368
SILRES® IC 368 can also be readily cooked with alkyd resins. The resulting coatings show 15% improved values in weathering tests. For alkyd cooks with silicone resin, the viscosity can be reduced by as much as threefold using SILRES® IC 368, compared to solid silicones in the same proportions. The hybrid resins achieve extremely high solids contents and significantly lower viscosity. SILRES® IC 368 makes it so much easier to formulate low-VOC coatings, and so helps you to meet emission standards.

**QUV-A Resistance: Alkyd**

![QUV-A Resistance Graph](image)

**Xenon Light Resistance: Alkyd**

![Xenon Light Resistance Graph](image)

Benchmark: middle oil alkyd with competitor A and SILRES® IC 368.
SILRES® IC 368 –
THE SECRET OF BRILLIANT COATINGS

SILRES® IC 368 is a novel methyl-phenyl-based silicone oligomer that can be chemically bound to an organic binder. It is a low-viscosity, solvent-free (<0.2%) liquid. It is used to produce organosilicone binders that permit the efficient formulation of highly weathering-resistant, low-VOC coatings.

The Advantages
• Improved long-term stress and cold-check resistance
• Better corrosion protection
• Enhanced weathering and chemical resistance
• Reduced solvent content
• Shorter reaction time during cooking
• High efficiency

SILRES® IC 368 can be cooked with polyester resins to produce binders with a silicone content of more than 50% that are resistant to temperatures in the 300 °C range.

Typical Applications
Coil-coating for outdoor applications (facade sheeting); protective wood paints for outdoor applications; exterior coatings for cooking utensils.

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