

Nanosil® 4040

Typical Properties

Appearance	Clear colloidal liquid
Active Ingredient	30%
Viscosity @ 25°C, cp	6
Density @ 23°C	1.328
Reflective Index	1.400
Ph Value (1% v/v solution in water)	6.8

Product Description

Nanosil® 4040 which carries a low loading of less than 0.4%, it enhances mechanical and physical properties, including scratch and wear resistance, dimensional stability stiffness, reduced shrinkage, flow lines, impact resistance, pigment dispersion and the chroma appearance of the coating finishes. The most important and proprietary manufacturing process in Nanosil® 4040 is that every nano particle of 8 - 11 nm is coated with films of Armstrong dimension to render its hydrophobic, discrete and not agglomerated.

Nanosil® 4040 is specially designed for use as an additive to impart surface hardness, scratch and wear resistance, to promote dispersing and levelling effect of the host material to which it is added.

Nanosil® 4040 is generally intended to be used as an additive for emulsion paint.

Incorporation Procedure

Nanosil® 4040 is used as an additive (at approximately 1 - 2% by weight of the total coating formulation) to the preparation of emulsion paint.

To effect full performance of Nanosil® 4040, it is recommended that Nanosil® 4040 to be added at the let down stage of the coating production.

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