

# Nanosil<sup>®</sup> 8030

## Typical Properties

Appearance	Clear liquid
Active Ingredient	55%
Viscosity @ 25°C, cp	2
Density @ 23°C	0.918
Reflective Index	1.387
Ph Value (1% v/v solution in water)	4.5

## Product Description

Nanosil<sup>®</sup> 8030 is a film forming clear liquid of nano silica dispersion in Butyl Acetate. It is designed for use as an additive to impart surface hardness, scratch resistance and promote adhesiveness for all types of coatings. Due to its excellent transparency and compatibility, it is best suited for clear coats and top coats. It enhances performance of coatings under severe conditions.

Nanosil<sup>®</sup> 8030 also improves the general surface characteristics in film strength, thermal stability, UV resistance, hydrophobicity and good weatherability.

## Incorporation Procedure

To be effective in the 2k polyurethane coating system, Nanosil<sup>®</sup> 8030 is added to the Polysocyanate (Hardening Agent). Being functional, Nanosil<sup>®</sup> 8030 has a primarily reaction with the Polysocyanate to form material similar to x aerogel, while the Polysocyanate maintains its properties as a hardening agent, with enhanced properties imbued by Nanosil<sup>®</sup> 8030.

Nanosil® 8030 is used as an additive (at approximately 1 - 2% by weight of the total coating formulation) in the preparation of a variety of coating systems.

It is always recommended that Nanosil® 8030 to be added at the let down stage of the coating systems. If it has to be added, for some circumstances, during the premix stage, due to its concentration, it has to be first mix with the solvent portion of the coating formulation in order to be thinned down prior mixing with the polymers / resins.

In its concentrated form its acidity is relatively high, never use a metal container to store Nanosil® 8030. Once it is added to the coating systems at appropriate level, it becomes totally inert and the final coating systems have full compatibility with all metals and other substrates, and protruding its excellent enhancement properties that others cannot match.

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