

GRIND RESIN NK

Grind Resin NK is a speciality multifunctional additive for water-based pigment dispersion. It improves grinding and wetting of pigments, stabilizes dispersion, prevents flocculation and reduces tendency of setting on ageing.

Grind Resin NK being multifunctional dispersing agent does more than simple surfactants and traditional dispersing agents when used during grinding as an additive for highly concentrated pigment dispersions. It wets the pigment overcoming the flocculation with minimum foaming. It does not adversely affect the film properties of the finished coating.

Features	Benefits
Rapid Pigment Wetting	Good flow at high pigment concentration.
Max. tinting strength development	Higher colour value.
Better stabilization	Elimination of hard settling.

COMPATIBILITY AND EFFECTIVENESS FOR WATER BASED EMULSION SYSTEMS:

Grind Resin NK is compatible with most of the water-based acrylics, alkyds, polyesters as well as latex emulsions intended for gloss, semi-gloss and flat finishes. It will not interfere with gloss, film integrity or water resistance of finished coatings. The aqueous system should have a pH of 6 to 10 to avoid possible shock.



Grind Resin NK is effective for a wide range of pigments, i.e. inorganic, organic and metallic. One can use **Grind Resin NK** at the level from 1% to 30% based on total pigment in the formulation. We recommend use of **Grind Resin NK** to prepare white base of TiO₂ at high pigment concentration and use the dispersion for preparation of various acrylic emulsion paints, distempers and premium quality emulsion paints to reduce TiO₂ consumption by getting maximum mileage of TiO₂. One will achieve a very finely ground TiO₂ particle stabilized by this resin.

This highly stabilized TiO₂/pigment particle will not undergo flocculation or agglomeration in typical paint formula. This will lead to substantial cost savings in long run. It can also give higher colour value for various organic pigment dispersions when incorporated in grinding which are difficult to disperse such as phthalo blue, green, black, etc. and also imparts stability over a longer period of time.

Specifications:

Appearance	:	Yellowish viscous liquid
Diluent	:	Water
Solids	:	40 ± 2%
pH	:	8-9
Type	:	Modified Acrylic Co-polymer
Nature	:	Anionic

Application:

A typical formula for white base of TiO₂ without binder is given below:

Grind Resin NK	:	3.00 - 7.00
Emulsifier (9.5 mole)	:	2.00
Propylene Glycol	:	2.00
TiO ₂ (Rutile)	:	70.00
Water	:	<u>19.00</u>
Total weight percentage	:	<u>100.00</u>

One may use ammonium polyacrylate thickeners or conventional thickeners to impart necessary viscosity replacing water.



Storage:

- Stable for 6 months if stored in a shade at room temperature in a closed container.

Disclaimer:

The information & data contained herein are given in good faith but without warranty. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.

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