

# ITOTONE 922

ORGANOCLAY RHEOLOGICAL ADDITIVE FOR SOLVENT BASED SYSTEM



## PROPERTIES

- **Appearance** : White, Free Flowing Powder
- **Moisture Content (@105°C, 2 hrs)** : < 3.5%
- **Granularity (<76µm or 200mesh)** : > 99%
- **Fineness Dispersion (no mill)** : < 50µm
- **Density** : 1.6 g/cm<sub>3</sub>

## APPLICATION

- **Solvent Polarity range** : low to medium polarity solvents
- **Dispersion Conditions** : Small amount of polar activator at high speed shear
- **Addition method** : Pre-gel

## CHARACTERISTICS

1. A new style product with easily dispersing, super thixotropic effect, good transparency.
2. Applicable to low and middle polar solvent systems, it can be dispersed with a small amount of polar activator at high-speed shear.
3. Good anti-sagging, anti-flowing, ideal thickening and thixotropic property.
4. Can be added at any step, then polar activator dosage is 20% of organoclay with dispersion at high speed or by mill
5. Usually dosage in paints is 0.2-1.5%, while in high thixotropic or thick paints is 1-2.7%.
6. Applicable in sealants, high temperature lubricating greases, bitumen paints, chlorinated rubber paints, high-grade paints, furniture paints, etc

## DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

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## APPENDIX

### Pre gel addition

ITOTONE 100 is made up of lamellar structure polymer. Under shear, solvent penetrates the capillary gap and causes wetting. This leads to lamellar structure polymer de-agglomeration. Addition of high shear or a polar activator under low shear causes the lamellar polymer structure become separated completely and form a gel structure as edge to edge hydrogen bonding occurs making a structure like a house of cards. This is known as pre-gel addition.

### Preparation of pre-gel

1. Add 85-87% of solvents or mixed solvents
2. Add ITOTONE series organoclay and disperse at high speed (2500rpm for 5-10 minutes)
3. Add polar activator and disperse at high speed (2500rpm for 15-20 minutes).

### Addition of ITOTONE pre-gel

- A. For poor wetting resin systems use in combination with surfactant and use the following addition process.
1. Charge resin and solvents and mix.
  2. Add ITOTONE pre-gel mixture and mix.
  3. Add surfactant.
  4. Add pigment and disperse
  5. Dilute
- B. For poor wetting capacity resin and non thixotropic grind materials use the following addition process
1. Charge resin and solvents and mix.
  2. Add surfactant (if required)
  3. Add pigment
  4. Disperse to the desired fineness with grinding
  5. add ITOTONE pre-gel
  6. Disperse completely to desired fineness
  7. Dilute.

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