

# ITOTONE 883B

ORGANOCLAY RHEOLOGICAL ADDITIVE FOR SOLVENT BASED SYSTEM



## PROPERTIES

- **Appearance** : Light Yellow, Free-flowing Powder
- **Moisture Content (@105°C, 2 hrs)** : < 3.5%
- **Granularity (<76µm or 200mesh)** : > 98%
- **Viscosity (7% xylene gel, 25°C)** : > 3.5 Pa•S
- **Viscosity (5% 200# gel, 25°C)** : 1500–3000 mPa•S
- **Loss on Ignition (@800-900°C)** : < 40%
- **Heavy Metal (Pb)** : <15 ppm
- **Heavy Metal (Cd)** : <15 ppm
- **Heavy Metal (Cr)** : <15 ppm
- **Heavy Metal (Hg)** : <15 ppb
- **Arsenic (As)** : < 5mg/kg

## APPLICATION

- **Solvent Polarity range** : 200# solvent, coal tar, turpentine, gasoline, diesel oil, white camphor oil, benzene, styrene, ester, ketone, ether, alcohol mixed solvent, vegetable oil, halogenated hydrocarbon
- **Dispersion Conditions** : High speed dispersion and polar activator. Use 95% ethanol at rate of 40-60% of weight of ITOTONE 883B. grind to improve fineness.
- **Addition method** : Pre-gel
- **Organoclay addition** : 5-8% ITOTONE 883B
- **Solvent addition** : 88-92% Xylene recommended
- **Activator addition** : 3-4% of either 95% ethanol or 95% methanol

## CHARACTERISTICS

1. Strong thickening ability, good compatibility, and needs polar activator.
2. Applicable to low, middle and high polar solvent systems especially suit for 200#solvent, coal tar, arene, etc.
3. Used in paints, printing inks, sealants, lubricating greases, putty, mixed paints, bitumen paints, chlorinated rubber paints, epoxy paints, anticorrosion paints, container paints, etc.
4. Similar to Bentone - 52.

## 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 883B 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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