

*Additives for coatings and printing inks*  
**DISPARLON<sup>®</sup>**

IT-5032E  
(Mar. '10)  
1/2P

**DISPARLON<sup>®</sup> 6900-20X**  
(Anti-sagging/Anti-settling agent)

**DISPARLON 6900-20X** is a thixotropic agent in paste form consisting of a dispersion of swollen particles of a unique synthetic amide wax. It is easily incorporated into many vehicles and/or solvent and develops an exceptionally strong and long retained thixotropic structure.

#### ADVANTAGES

- Highly shear thinning resulting in superior application properties
- Superior anti-settling agent for heavy pigments and metallics
- Metallic and pearlescent pigment orientation to reduce mottling and improve flip/flop
- Exceptional anti-sag properties in high film build applications
- Excellent shelf stability

#### APPLICATIONS

**6900-20X** is particularly recommended for suspension and anti-sag in enamels and clear topcoats which require maximum gloss. **6900-20X** can be used in almost all solvent based synthetic resin paints and coatings, including alkyds, urethanes, epoxies, acrylics, acrylic/melamines, acrylic/urethanes, tar/epoxies, chlorinated rubber, vinyls, oil-free alkyds, unsaturated polyesters and acid-cured alkyds. **6200-20X** is recommended for both high solids and conventional systems.

#### INCORPORATION

**6900-20X** is a paste consisting of activated particles in solvents. To obtain optimum activity, it is important to disperse **6900-20X** without destroying the original particles. It is preferred to disperse the additive with limited shear in a short period of time.

Additive levels                      For anti-settling : 0.5 ~ 2.0 % by wt.  
   For anti-sagging : 2.0 ~ 5.0 % by wt.

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*Kusumoto Chemicals, Ltd.*

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## Method

### ●Post addition

Add in a finished paint and disperse with a high speed dissolver. To enable you to use this method, the paint worked on should have an initial viscosity of less than 70KU. The dissolver should be run at high speed with care taken so as to minimize air entrapment. This method is applicable to almost all types of low viscosity paints.

### ●Addition after Master batch preparation

A master batch may be prepared by dispersing the paste in a vehicle and/or solvent which can be added to the finished paint. This method is preferred for paints that are required to give a high quality surface and for metallic and flat paints formulated with specialty pigment such as aluminum powder, flattening agents, and zinc dust.

Use of a master batch is also recommended as an effective way to introduce thixotropy into unsaturated polyester coatings or clear varnish coatings. For preparation of a master batch, the following recipe can be used: Resin / Solvent / **6900-20X** = 30 % / 50 % / 20 %

The above mix is dispersed gently on Cowles type dissolver or three roll mill, until it reaches a particle size of 20  $\mu$  or less.

## TYPICAL PROPERTIES

Appearance .....	Light yellow paste
Non-volatile matter.....	20 % by wt.
Solvent .....	Xylene/Ethanol/Methanol

## CAUTION

**6900-20X** can cause poor recoatability when used in oil based paints such as oil modified alkyds and alkyd melamines that are force dried or baked. Therefore **6900-20X** is not recommended for use in these systems.

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