



Tekperse NS1

High molecular weight polymeric dispersant with high cationic functionality

Description:

Tekperse NS1 is a high molecular weight polymer blend of hydrophobic and hydrophilic type dispersion agent designed as wetting and dispersing agent for solvent and water base coating. Tekperse NS1 prevents reflocculation of pigments through steric hindrance and therefore stabilizes the color strength and hue of pigments in paints and pigment concentrates system. Its high concentration of pigment affinic groups improves the wetting and dispersing even at a low dosage. Tekperse NS1 designed to disperse difficult organic pigment especially high color carbon black. Dispersion of carbon black results in coating with very high jetness and blue tone. The dispersion agent also can be used for other colors such as red, blue, green, and yellow.

Physical constant:

Appearance	slight cloudy, low viscosity solution
Percent active, %	100
Solvents	None

Application:

Tekperse NS1 can be used in all types of solvent base coatings such as automotive, high performance industrial coatings, coil coatings, and others. Tekperse NS1 is especially design to give good dispersion, color performance, and stability in UV system. Tekperse NS1 is compatible to difference resin chemistries particularly acrylic, polyester, and alkyd (long, medium, and short chain). It can be used either in millbase concentrate (resin free) or resin grind water base system.

Recommend Dosage:

High color carbon black (Cabot M1300 or Degussa FW200 type)

40-60% active on carbon black or 1 part of wet dispersant to 1 part of pigment

Medium color carbon black (Cabot M900 or Degussa SS6 type)

20-40% active on carbon black or 0.75 part of wet dispersant to 1 part of pigment

Regular color carbon black (Cabot R400, Degussa SS4, or MA100 type)

10-15% active on carbon black or 0.25 part of wet dispersant to 1 part of pigment

Other colors pigment

10-20% active on carbon black or 0.30 part of wet dispersant to 1 part of pigment

Inorganic pigment

5-10% active on carbon black or 0.10 part of wet dispersant to 1 part of pigment

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