Kusumoto Chemicals, Ltd.

DISPARLON® AQ-D400

Pigment Wetting/Dispersing Agent for Water-borne Systems

TECHNICAL DATA SHEET
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DISPARLON® AQ-D400 is a pigment wetting and dispersing agent composed of an amine-neutralized acidic acrylic polymer, which is highly effective for dispersing organic and inorganic pigments such as carbon black and titanium oxide. DISPARLON® AQ-D400 reduces the viscosity of high-pigment-loading systems and improves color strength and distinctness of image (DOI). A well-dispersed pigment paste can be readily obtained by adding DISPARLON® AQ-D400 to pigments and water, followed by pre-dispersing and subsequent sand milling.

TYPICAL PROPERTIES

The following figures are typical properties, not to be used for specification.

Compositions	Acrylic polymer, amine
Appearance	Light yellow to yellow liquid
Active matter	30 wt%
Solvent	Water
Acid value (mgKOH/g)	54
Amine value (mgKOH/g)	56

ADVANTAGES

- Excellent pigment wetting and dispersing properties.
- Effective for a wide range of pigments and fillers.
- Improves gloss, DOI, color strength, and hiding power.

APPLICATION

DISPARLON® AQ-D400 can be used in a wide range of water-borne coatings.
DISPARLON® AQ-D400 can be used in various water-borne inks such as inks, including food packaging, inkjet inks, gravure inks, and flexographic inks.

INCORPORATION

Addition levels

3–30 wt% for inorganic pigments and body pigments
40–130 wt% for organic pigments and carbon black
The optimal additive level should be determined under actual use conditions.

Method

Addition during the grinding/dispersing stage is recommended.

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