

Devine Chemicals Ltd

DeCAL 2043

DeCAL 2043 is a low viscosity product used to disperse inorganic pigments and fillers in water borne systems. It is especially suited for use in silk and gloss emulsion paints where its compatibility with glycols maintains the gloss of the system.

1. Typical Properties.

Chemical Nature :	Ammonium salt of an acrylic copolymer in water.
Appearance :	Straw coloured liquid.
pH :	7.5
Density :	1.15g/cm ³
Solid content :	40%

2. Applications.

(i) Decorative Paints and Coatings – DeCAL 2043 is an ideal dispersing agent for water borne high gloss coatings because it is compatible with polypropylene glycol and other glycols used to promote wet edge time and film coalescence.

DeCAL 2043 is effective at high temperatures above 100°C over a pH range of 5 – 12.

(ii) Adhesives & Latex Compounds – DeCAL 2043 is used to disperse fillers and pigments in many products such as tile adhesives, grouts, fillers and water based adhesives and glues.

(iii) Ceramics – DeCAL 2043 is used to stabilise dispersions of clay in ceramic casting slips.

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The polyphosphate dispersants sometimes used in water borne systems are not as stable to pH changes as **DeCAL 2043** at high temperatures. **DeCAL 2043** offers much better stability and improved shelf life for water borne paints and coatings.

3. Incorporation : **DeCAL 2043** should be thoroughly mixed with water before adding pigments and fillers to the system using high shear mixers. Using this method very high pigment loading can be achieved.

The optimum dispersing efficiency is achieved at a pH 8.5 or thereabouts.

The dosage required is between 0.5% - 2.0% calculated as supplied on weight of pigments and fillers.

4. Safety & Handling: **DeCAL 2043** should be handled in accordance with good industrial practice. Detailed information is provided in Safety Data Sheet.

5. Storage : Although **DeCAL 2043** is freeze thaw stable, it is recommended to store the product at temperatures above 5°C to enable easy handling of the product.

We hope this information will be of value and if necessary we will be glad to offer additional technical advice. Please note that all our information is given in good faith, we can assume no responsibility for any liability incurred. The Buyer should confirm data and results by testing the product under its intended conditions of use.

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