

## **Devine Chemicals Ltd**

### **DeCAL 2040**

**DeCAL 2040** is a derivative of a family of highly effective, low viscosity dispersing agent for water borne coating systems. The product is especially suited for the dispersion of inorganic pigments.

**DeCAL 2040** is a solution of an sodium salt of an acrylic polymer in water.

#### **1. Physical Properties:**

Appearance :	Straw coloured liquid.
pH :	8.0
Solid content :	43%
Active content :	40%
Viscosity at 25°C :	400cps (Brookfield @20 rpm)
Density at 20°C :	1.31 g cm <sup>-3</sup>

#### **2. Applications:**

**DeCAL 2040** is an ideal dispersing agent for a wide range of water borne coatings.

**DeCAL2040** can be used as supplied.

Compared with inorganic dispersing agents e.g. polyphosphate products, the organic polymer based **DeCAL 2040** provides improved storage stability of both the pigment dispersion and the formulated paint. There is little or no adverse reaction to high temperatures or pH changes.

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## 3. Incorporation of DeCAL 2040 into a formulation :

It is recommended to add the pigment to water containing the dispersing agent with stirring as opposed to addition of the dispersing agent to a pigment slurry. In general, the pH of the final preparation should be in the region of 8.5 to obtain dispersing efficiency.

The optimum amount of dispersing agent required to form a stable dispersion strongly depends on a pigments chemical nature, the particle surface and shape. In general, significant overdosing may deteriorate the coatings properties , eg water resistance, and also generates an economic disadvantage. Likewise, insufficient dispersing agent will lead to instability on storage.

In common with other dispersing agents, because of batch to batch variations of the demands of a specific pigment it is recommended that the formulator uses 1.5 – 2.0 times the determined optimum level of the dispersing agent.

## 4. Safety & Handling :

**DeCAL 2040** should be handled in accordance with good industrial practice. Detailed information is provided in the Safety Data Sheet.

Although **DeCAL 2040** is freeze stable, it is recommended to store the product at temperatures above 5°C to enable easy handling.

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. Data and results should be confirmed by the Buyer by testing the product under its intended conditions of use.

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