



DeCAL 2170B

High efficient surfactant and versatile wetting agent.

Physical Properties:

Appearance :	Clear straw coloured liquid.
Solids content :	70%
Density at 20°C :	1010g-cm ⁻³

Applications:

Typical uses of **DeCAL 2170B** include:

Pigment Dispersion :

Self-emulsifying pigment pastes can be formulated comprising only of the pigment and **DeCAL 2170B**

Water based coatings :

DeCAL 2170B may be post-added to a coating formulation to assist the wetting of substrates with low surface tension, e.g. plastics and metals.

The optimal concentration range for **DeCAL 2170B** in this application must be derived from a series of experiments in the actual formulation in order to achieve maximum wetting with low foaming.

Water based wax formulations (e.g. car polishes) :

Water based formulations can be stabilized against phase separation through the addition of **DeCAL 2170B**.

Solubility of **DeCAL 2170B** in water based formulations depends on type of electrolyte and concentration, e.g. in the presence of 1% sodium chloride a turbid solution is formed.

The active substance of **DeCAL 2170B** is hydrolysed by acids and alkalis. The best working range of pH is between 6-9. The products of hydrolysis are water soluble.

Since any component present in a formulation can have significant impact on the overall latex properties, compatibility and dosage level should always be checked in the actual formulation.

Recommended concentration:

- ⇒ Pigment Dispersion : Up to 5% **DeCAL 2170B**. Based on pigment weight.
- ⇒ Water based coatings: 0.05 – 0.3% **DeCAL 2170B** Based on total formulation.
- ⇒ Water based wax formulations: Up to 5% **DeCAL 2170B** based on wax weight

Dewatering aid for mineral processing. **DeCAL 2170B** aids dewatering by decreasing surface tension or by increasing the contact angle of the liquid on the solid surface. **DeCAL 2170B** and oil leads to much better dewatering than the use of the **DeCAL 2170B** or the oil alone. **DeCAL 2170B** is important in dispersing the oil over the solid surface and in reducing the surface tension of the liquid. Once the surface is made hydrophobic, subsequent washing results in a drier cake and less associated impurities.

Safety & Handling :

DeCAL 2170B should be handled in accordance with good industrial practice. Detailed information is provided in the Material Safety Data Sheets.

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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