



# Product Data Sheet

## ADD-A40

### GENERAL

**ADD-A40** is a derivative of a family of highly effective, low viscosity dispersing agents for a wide range of water-borne coating systems. Especially suited for the dispersion of inorganic pigments,

### SPECIFICATIONS

|                           |   |
|---------------------------|---|
| Description               | : <b>ADD-A40</b> is a solution of an ammonium salt of an acrylic polymer in water |
| Appearance                | : Pale yellow liquid  |
| Active content            | : 40%   |
| Odor                      | : Slight smell of ammonia   |
| Specific gravity (@ 20°C) | : 1.16 g/cm <sup>3</sup>  |
| Solids content            | : 43%   |
| pH (approx.)              | : 8.0   |

### APPLICATIONS AND USAGE

**ADD-A40** is an excellent dispersing agent delivering process efficiencies across a range of market applications:

- Paints
- Adhesives
- Ceramics
- Electronic ceramics

**ADD-A40** can be used as supplied. The neutralizing alkali used in conjunction with the acrylic polymer can significantly impact the properties of the final coating. **ADD-A40** releases ammonia during the drying process and therefore has little impact on water and alkaline resistance of the dry film. Use of **ADD-A40** should be limited to pH 5 -10.5 and temperatures lower than 70 °C due to potential loss of volatile ammonia.

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 optimum dispersing efficiency.

Usage **0.5 – 2.0% ADD-A40** into the formulation (based on total pigment weight).

### STORAGE, SAFETY & HANDLING

Although **ADD-A40** is freeze stable, it is recommended to store the product at temperatures above 5 °C to enable easy handling of the product. Avoid frost and freezing. Do not store in steel, copper or aluminum containers. Thermal decomposition above 200°C releases carbon dioxide. When kept in an original unopened container, **ADD-A40** will keep up to 2 years from the date of manufacture. Detailed information can be found in the Safety Data Sheet.