PAT-ADD DA 103 is an approx. 45% solids polymeric dispersing agent for inorganic pigments in water. The product is designed for use in dispersion paints and similar applications. PAT-ADD DA 103 enables high pigment loading in the mill-base, is non-foaming and contributes to best paint storage stability.

PHYSICAL CHARACTERISTICS:

- **Appearance**: Clear colourless to pale yellow liquid
- **Viscosity @ 25°C, approx**: 450 cPs
- **Specific gravity @ 25°C approx.**: 1.320
- **Polarity**: anionic
- **pH**: 7.5 – 8.5
- **Composition**: polyelectrolyte, sodium salt
- **Solids content, approx**: 45%

PROPERTIES:

PAT-ADD DA 103 is strongly adsorbed onto inorganic pigments and extenders, thus creating a dense charged layer, which contributes to electrostatic stabilisation of the dispersed pigment and extender particles. The tendency of pigment flocculation, during paint production, storage or application is reduced, whereas properties like viscosity stability on storage, colour development, opacity, scrub-resistance are being optimised, using PAT-ADD DA 103. PAT-ADD DA 103 typically reduces the viscosity of the mill-base, enabling highest pigment loadings and is economical.

MAIN BENEFITS ARE:

- Reduced pigment grinding time
- Strong prevention of pigment flocculation, floating, flooding, and pigment settling
- Maintenance of efficiency even after storage - stable viscosity
- No phase separation
- No foam formation
- Universal usage for dispersion paints

DOSAGE AND ADDITION:

The optimal amount of PAT-ADD DA 103 to be used is system related, but generally is between 0.4 and 2.0% PAT-ADD DA 103, calculated on the total weight of the mill-base, respectively approx 0.3 to 0.7% on total paint formulation. The product is best added to the mill-base before the pigments, extender. The optimum concentration to be used depends on the individual requirements and conditions.

For information on handling and safety please refer to the information from the Material Safety Data Sheet