

# TECHNICAL DATA SHEET

## BILTREAT DA 54

(Nonionic APEO Free Dispersing Agent)

### Description:

BILTREAT DA 54 is a Nonionic APEO free, particularly effective dispersing agent for inorganic fillers and pigments.

### Physical Properties:

|   |   |                                  |
|---|---|----------------------------------|
| Appearance                                      | : | Clear Liquid                     |
| Color   | : | Colorless to pale yellow         |
| Odor  | : | Characteristic                   |
| Chemical Composition                            | : | Sodium salt of poly acrylic acid |
| Specific Gravity, (@ 30+/-1 °C, by Hydro Meter) | : | 1.18 to 1.22                     |
| Solid Content, (@ 105+/-2 °C)                   | : | 28 to 32                         |
| pH, (@ 2 % in Distill Water)                    | : | 8 to 10                          |
| Viscosity, (@ 30+/-1 °C, by Ford Cup)           | : | 40 to 70 Second                  |
| Soluble in Water                                | : | Soluble                          |
| Grade   | : | Industrial Grade                 |

### Advantages:

- Superior performance in formulations in which reactive pigments such as zinc oxide or basic lead silicate are incorporated, imparting improved stability to such systems.
- Contribute to overcome pigment floating & settling.
- Reduces mill viscosity which allows higher pigment / extender loading in paint formulation.
- During the pigment grinding agglomerates are associated into a grinding dispersion of particles. In the process of dispersion, BILTREAT DA 54 mainly prevents association of pigments and extender particles. BILTREAT DA 54 gets adsorbed onto the pigment particles and hinders close approach of particles which results in good wetting & stabilization of pigment particles finally resulting in enhancing paint properties like opacity, tinting strength, gloss. It is soluble only in polar solvents such as water, glycerin and ethylene glycol. For maximum effectiveness, BILTREAT DA 54 should be used in systems at pH 9.0 - 10.0.

### Applications:

- Dispersion of inorganic pigments & clay slurries for paints and paper coatings and also be used in textile printings where pigments and fillers are used in preparing printing pastes.
- It is also useful in high PVC paint, primer and economy exterior coatings.

### Recommended Dosage:

- However, the optimum dosage, compatibility and performance should be checked in each case individually.
- The most effective dosages normally recommended concentrations 0.4 – 1.0 % (Base on total pigment weight).

### Handling & Storage:

- Please read & understand the MSDS before using this product.

### Packing:

- BILTREAT DA 54 is available in 50 kg HDPE Carboy, 220 kg HDPE barrel & 1 MT Plastic IBC's Tank.

### Shelf Life:

- 1 year from the date of manufacturing..
- After this, Product should be test prior to use.

### Disclaimer:

The suggestion & data in this publication is currently believed to be accurate. We do not guarantee its accuracy as the conditions & methods of the use of our products are beyond our control. Purchasers should always make their own determination of its suitability and completeness for a particular use, for the protection of the environment & for the health and safety of employees.