
TDS - TECHNICAL DATA SHEET

DISASTAB GAT/EX

DESCRIPTION

DISASTAB GAT/EX is an aqueous solution of nitrogenated chelating agent with ethylene components used to create a stable emulsion between alkyd resins, water and solvents in synthetic enamels and other solvent based coatings.

PROPERTIES

Aspect Transparent liquid

Ionic Character..... Anionic

Scent..... Characteristic

pH..... 6.0 to 8.0

APPLICATION

DISASTAB GAT/EX should be added at 3 – 4% over the quantity of solids of the resin that is added in the manufactured coating formulation. **DISASTAB GAT/EX** is used in synthetic enamels and other solvent based coatings formulations based on alkyd resins. For the alkyd resins manufacturer, **DISASTAB GAT/EX** could be incorporated during the end of the alkyd manufacturing process, with the dilution of a temperature lower than 80°C.

DISASTAB GAT/EX is incorporated and homogenizes readily and quickly in all components of the coating. After the total addition of the **DISASTAB GAT/EX**, this should be mixed for more than 5 minutes before the incorporation of the water. Then water should be added continuously and gradually for a period of approximately 5 minutes under sufficient agitation. Laminar flow should be maintained because in turbulent conditions, the efficiency of formation of the emulsion is very low. After adding the total quantity of water, the mixture should be maintained under agitation of 1100–1700 rpm keeping laminar flow for a period of 15–20 minutes, in order to guarantee a stable emulsion with very small size particles. After this process, the temperature of the base of the coating will have risen to a range of 40–50°C.

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DISASTAB GAT/EX can be prepared in a pre-emulsion. In this case, the **DISASTAB GAT/EX** can be incorporated upon the homogenization of the resin with the Mineral Spirit.

The water should be added gradually into the vortex and after its total addition, agitation should continue for 20-30 minutes to ensure complete homogenization. A speed of 1100-1700 rpm should ensure excellent formation and stability of the emulsion.

This pre-emulsion can then be mixed with the pigment bases that have been previously milled, and dispersed to complete the coating for the final adjustments.

ADVANTAGES IN THE USE

- **DISASTAB GAT/EX** does not impede the drying as will triethanolamine.
- **DISASTAB GAT/EX** does not alter the gloss of alkyd resins.
- **DISASTAB GAT/EX** forms stable emulsions for long shelf life.
- **DISASTAB GAT/EX** does not yellow, either during storage or as an applied coating.
- **DISASTAB GAT/EX** is compatible with all the solvents normally used in coatings.
- **DISASTAB GAT/EX** has very good particle stability in pumping and is not influenced by the type of pump and rotation used.

HANDLING

DISASTAB GAT/EX should be handled with safety glasses, gloves, boots and PVC aprons.

PACKING / STORAGE

- **DISASTAB GAT/EX** is supplied in open top pumps with 220 Kg or containers of 1100 Kg.
- **DISASTAB GAT/EX** has a recommended shelf life of 1 year.
- **DISASTAB GAT/EX** should be stored out of direct sunlight and in a ventilated facility.