

## *Technical Data Sheet*

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### **Indofil HSD 45**

#### **High Solid Dispersing Agent for Water Based Systems**

**Indofil HSD 45** is the latest introduction in the basket of dispersing agents from Indofil Range. It is a highly effective, low viscosity dispersing agent for water-borne coating systems.

Being a high solid dispersant it reduces formulator dosage and offers competitive advantage over other dispersants by further minimizing water transportation costs.

**Indofil HSD 45** is an ideal dispersant for a wide range of water-borne Coatings. It is versatile pigment dispersant for High PVC, Medium PVC, and Low PVC paint formulations and especially suitable for the dispersion of inorganic pigments.

#### **Physical Properties:**

- Nature : Sodium salt of Poly carboxylate
- Appearance : Clear, Slightly brownish to yellowish liquid
- Solids content (%) : 44 – 46
- Sp.Gr. (g/ml)@ 25<sup>0</sup> c : 1.27-1.31
- pH : 7 .0-8.0
- Viscosity ,cps @ 25<sup>0</sup> c : <1400

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### **FUNCTION:**

For dispersant, the key properties are wetting, dispersing and stabilization of solid particles, such as pigments, into the liquid. After the initial wetting of the pigment surface, the particle agglomerates formed by pigment production processes, are further broken down by mechanical milling. The dispersant adsorbs onto the freshly created surface forming a stabilizing polymer layer. This electrostatic stabilization helps to create an energy barrier around each particle and prevents the natural tendency of the particle to re-agglomerates due to Vander Waals forces.

The development of this low molecular weight polymeric dispersant **Indofil HSD 45** is driven by the need to improve the desirable characteristics of paint formulation. **Indofil HSD 45** will offer paint industry the opportunity to evaluate some latest development.

### **ADVANTAGES:**

- Economical - as low level of addition required, being a 45% solid product
- Very good stability of the manufactured products, in particular excellent viscosity stability
- Improves the dispersion process and reduces defoamer requirements
- High efficiency for dispersion of mineral pigments and extenders, and consequently low grinding time required
- Liquid product ready to use, easy to handle



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### **Recommended Dosage:**

0.4 – 1.0% Indofil HSD 45  
(based on pigment weight)

### **Storage:**

Indofil HSD 45 should be stored in tightly closed containers under shade. It should not be exposed to direct sunlight.

### **Shelf Life:**

12 months from the date of Manufacturing.

### **Disclaimer:**

**The suggestion and data in this bulletin are based on information we believe to be reliable. It is offered in good faith, but WITHOUT GUARANTEE, as the conditions and methods of the use of our products are beyond our control. We ALWAYS recommend that the prospective user should determine the suitability of our products and suggestions on an experimental basis first, Before ADAPTING on a commercial scale.**

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