

LAVIOTHIX[®] DP1

High performing rheological additive for water borne system

General information

LAVIOTHIX[®] DP1 is product of inorganic origin based on clay, with high performances and efficiency, specific for water borne formulations that gives great pseudoplastic behaviour and tixotropy.

Chemical- physical properties

Composition: purified smectite (98% montmorillonite)

Physical form: white fine powder

Bulk Density: 0.7-0.8 g/ml

Dry residue: max 3% > 325 mesh (45 µm)

Moisture: max 9-11%

Applications

- Adhesives
- Emulsion paints
- Bituminous emulsion
- Latex paints

Properties

LAVIOTHIX[®] DP1 is a rheological additive that gives stability and viscosity control., It can be incorporated as aqueous pre-gel at 10-12 wt% pregel

Incorporation

LAVIOTHIX[®] DP1 will hydrate when added to water. To obtain maximum hydration and optimum performance in the shortest time, we suggest following incorporation procedures:

1. Slowly add **LAVIOTHIX[®] DP1** and increase shear rate to maximum amount which may be tolerated in the mixing container. Incorporates more quickly in warm water. However, do not allow water temperature to rise above 50° C prior to full hydration. Once hydration has occurred, there is no temperature limitation for **LAVIOTHIX[®] DP1**
2. Continue to disperse until a constant viscosity is reached (15-30 min)
3. Add other formula ingredients in appropriate order

LAVIOTHIX[®] DP1 shows the same gel formation properties using either a high shear or a low shear (Fig 3)

Storage stability and packing

Product do not deteriorate in a significant way in a 12 months period. Storage is advisable in a dry, sheltered place in closed bags. Packing is 25 kg net in paper bags.

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