

SEPIOGEL F

Technical Data Sheet

DESCRIPTION

SEPIOGEL F is a fine grade colloidal sepiolite clay often used in paints, caulks, sealants, etc. It may be used with cellulosic and associative thickeners in latex paints to provide low shear viscosity, thereby improving brush pick-up and preventing syneresis. It also performs well in solvent based sealants, mastics, and roof coatings in conjunction with a surfactant, usually an amine.

Sepiolite is a hydrous magnesium silicate clay mineral, $Mg_8Si_{12}O_{30}(OH)_4(OH_2)_4(H_2O)_8$. It is a lightweight, non-swelling, porous clay with very high surface area and a lathe-like physical structure. This unique structure forms a gel when mixed in aqueous systems. The very low cation exchange capacity makes it stable such that it will maintain viscous properties in a brine solution.

TYPICAL PHYSICAL PROPERTIES

Appearance	Fine Off-White Powder
Moisture	14%
Loss on Ignition	12.5%
Bulking Value	0.0518 U.S. Gal/lb
Weight/Gallon	19.3 lbs
Bulk Density	30 lbs/ft ³
Particle Size (Dry Sieve).....	90% min -325 Mesh
Particle Size (Wet Sieve).....	0.5% max +325 Mesh

Above properties are typical and not intended to be product specifications.

INCORPORATION

In latex systems, SEPIOGEL F should be added to the grind to insure that optimum shear is applied. Generally, when more shear that is applied to SEPIOGEL F, the more fully Sepiogel's viscosity is developed. In organic systems, SEPIOGEL F requires high shear incorporation and a surfactant. Fatty amines (cationics) are generally used in ratios ranging from 1:4 to 1:8(amine:Sepiogel). Amines should not be used in aluminum pigmented systems as that requires the use of nonionic surfactants.

PACKAGING

Available in 50 lb. (3-ply natural bags). Shipped on 42x48 non-returnable pallets.

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