



Laponite LV

Description and application

Laponite LV has been specially developed for use in high performance water based surface coatings to produce shear sensitive and thixotropic structure. It is particularly useful in formulations that contain high levels of emulsion resins and so have relatively low levels of free water available in which to disperse a rheological additive. These include:

- automotive basecoats
- industrial and protective coatings
- wood coatings

When hydrated in deionised water at up to 3% concentration, **Laponite LV** will produce a clear and colourless colloidal dispersion of very low viscosity level, typically <50 mPas. The low viscosity of this dispersion makes it easy to produce a homogenous mixture when it is combined into a resin system. On addition to a wide range of types of emulsion resins, **Laponite LV** will produce an instantaneous build in viscosity of the system.

Typical Characteristics

Property	
Appearance	free flowing white powder
Bulk Density	1000 kg/m ³
Surface Area (BET)	370 m ² /g
pH (2% suspension)	9.8

Chemical Composition (dry basis)	
SiO ₂	59.5%
MgO	27.5%
Li ₂ O	0.8%
Na ₂ O	2.8%
Loss on Ignition	8.2%

General Specifications

Property	Specification	Rockwood QA Test Code
Gel strength	22g min	ELP-L-1H
Sieve Analysis	2% Max >250 microns	ELP-L-6A
Free Moisture	10% Max	ELP-L-5A
Viscosity in DI water	16s max (Ford Cup #4)	ELP-L-1K
Specifications can be agreed to meet individual requirements.		

Storage

Laponite products are hygroscopic and should be stored under dry conditions.

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