



Using Laponite® in water based wood coatings

Fields of use

Laponite® products can be used to improve the rheological properties of many water based wood coatings. Typically Laponite® is used as a co-thickener in formulations with polymer rheological additives, such as CMC, HEC, xanthan or polyacrylate to develop synergistic increases in viscosity at low shear rates. Laponite® is used in both interior and exterior formulations for DIY and professional use. It can be formulated in Ecolabel paints and coatings.

Grades

Laponite® products disperse easily and quickly in water without the need for wetting or neutralising agents or high shear. Recommended grades for use in wood coatings are Laponite® RD, Laponite® RDS and Laponite®S482

Features	Benefits
High viscosity at low shear rate with unsurpassed degree of shear thinning; highly thixotropic	<ul style="list-style-type: none"> • Excellent pigment suspension • Superb flow properties; highly suited for spray application
Reduces pigment flocculation/ improves pigment spacing	<ul style="list-style-type: none"> • Excellent ageing characteristics and control of colour tone • Higher colour intensity
Synergistic interactions with polymeric co-thickeners	<ul style="list-style-type: none"> • Allows engineering of precisely controlled rheological profiles • Can be formulated for spray, brush, roller and dip application
Colloidal particle size- forms clear dispersions in water	<ul style="list-style-type: none"> • Suitable for clear coats • Does not affect gloss
Viscosity developed via an electrostatic mechanism	<ul style="list-style-type: none"> • Viscosity is not affected by elevated temperature
Inorganic chemistry	<ul style="list-style-type: none"> • Resistant to microbial attack • May allow reduction in biocide level of formulations

Use level

Use level is 0.1% up to 1.0% dry content of Laponite® based on the total mass of the liquid formulation.

For more information- contact the Laponite team on help@laponite.com

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