



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

Laponite is a registered trademark of Rockwood Additives Limited. All information here is given in good faith but without warranty or guarantee of any kind whatsoever, whether implied or expressed. Freedom from patent rights must not be assumed. This leaflet does not form part of the conditions of sale, is of a general nature and should not be used as the basis of a specification.

Southern Clay Products, Inc., Rockwood Additives Limited and Rockwood Clay Additives GmbH are wholly owned subsidiaries of Rockwood Specialties Group, Inc.

Rockwood Additives LimitedMoorfield Road Widnes
Cheshire UK WA8 3AA

Tel: +44 (0)151 495 2222 Fax: +44 (0)151 420 4401

Rockwood Clay Additives GmbHStadtwaldstr. 44
85368 Moosburg, Germany

Tel: +49 (0) 8761 72 150-0 Fax: +49 (0) 8761 72 150-334

Rockwood Specialties (Singapore) Pte. Limited171 Chin Swee Road
Unit No: #10-08 San Centre Singapore 169877

Tel: +65 6532 0676 Fax: +65 6532 0502