

Turboset™ Ultra Eco Polyurethane Dispersion

Self-Crosslinking Waterborne Polyurethane Composite

Turboset™ Ultra Eco is an NMP/NEP free, self-crosslinking waterborne polyurethane composite that is able to be formulated to <140g/L VOC US (< 50 g/L EU). Turboset™ Ultra Eco is designed to perform on sports, recreation and high traffic wood floors without the use of cross-linkers. One component (1K) waterborne finishes made from Turboset™ Ultra Eco can be formulated to have properties such as black heel mark, scuff and abrasion resistance comparable to 2K waterborne urethane finishes. Turboset™ Ultra Eco is based on a state of the art, self-crosslinking mechanism that cures as the wet film dries. Turboset™ Ultra Eco's ability to perform in demanding floor applications without adding cross-linkers simplifies and lowers the risks of application associated with 2K systems, while also reducing waste. If additional performance is desired, Turboset™ Ultra Eco can be further cross-linked with an external cross-linker, such as aziridine or isocyanate, to further improve properties such as hardness and chemical resistance.

FEATURES AND BENEFITS

- Abrasion Resistance
- Adhesion
- Black Heel Mark Resistance
- Chemical Resistance
- Crosslinkable
- Durable
- Glossy
- Hardness
- Non-Yellowing
- Scratch Resistance
- Self-Crosslinking
- Solvent Resistance
- Stain Resistance
- Water Resistance

CHARACTERISTICS

Characteristic Name	Value
% Volume Solids	34.0 - 36.0
% Weight Solids	35.0 - 37.0
Appearance	Slightly Cloudy Dispersion
Brookfield Viscosity (cps)	<400
Density (g/cc @ 25 °C)	1.04
Density (lb/gal @ 25 °C)	8.69
Freeze/Thaw Stability	Protect from freezing
MFFT (°C)	<4.4
Volatile Organic Compounds (wt. %)	0.62 (Triethylamine)

Characteristic Name	Value
pH Value	7.5 - 9.0

REGULATORY

- Low VOC⁴
- NEP-Free
- NMP-Free¹

¹Not intentionally added to the composition of this product

⁴Suitable for coating formulations where less than 140 g/l VOC (US EPA Method 24) or 75 g/l VOC (ISO 11890-1, Method 2) is desired based on calculations.

APPLICATIONS

- Building & Construction Coatings

AVAILABLE REGIONS

- Asia Pacific
- Latin America
- North America

RECOMMENDED STORAGE AND RE-TEST DATE

Lubrizol recommends retesting quality after 365 days. See SDS for storage conditions and handling instructions.

REGULATORY STATUS

Please see the product's current material safety data sheet, SDS, for regulatory information. You can request an SDS at www.lubrizol.com/coatings.

Should you have questions on additional topics, please feel free to contact your Lubrizol representative or one of our regional Customer Assistance groups listed here:

America: AmerLZAMCustomerAssistance@Lubrizol.com | Europe: EMEAICustomerAssistance@Lubrizol.com |

Asia: APCustomerAssistance@Lubrizol.com | Brazil: BrazilQualityLZAM@Lubrizol.com

DISCLAIMER

Lubrizol Advanced Materials, Inc. ("Lubrizol") hopes that you have found the information provided helpful, but you are cautioned that this material, including any prototype formulas, is for informational purposes only and you are solely responsible for making your own assessment of appropriate use of the information. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAWS, LUBRIZOL MAKES NO REPRESENTATIONS, GUARANTEES, OR WARRANTIES

(WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE), INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR REGARDING THE COMPLETENESS, ACCURACY, OR TIMELINESS OF ANY INFORMATION. Lubrizol does not guarantee how the materials referenced herein will perform in combination with other substances, in any methods, conditions, or processes, with any equipment, or in non-laboratory environments. BEFORE COMMERCIALIZATION OF ANY PRODUCT CONTAINING THESE MATERIALS, YOU SHOULD THOROUGHLY TEST SUCH PRODUCT, INCLUDING HOW THE PRODUCT IS PACKAGED, TO DETERMINE ITS PERFORMANCE, EFFICACY, AND SAFETY. You are solely responsible for the performance, efficacy, and safety of any products you manufacture. Lubrizol shall not be liable, and you shall assume all risk and responsibility for, any use or handling of any material. Any claims may not be approved in all jurisdictions. Any entity making claims related to these products is responsible for complying with local laws and regulations. Nothing contained herein is to be considered as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner, and it is your sole responsibility to determine if any issues related to patent infringement of any component or combination of components relating to the information provided exists. You acknowledge and agree that you are using the information provided herein at your own risk. If you are dissatisfied with the information provided by Lubrizol, your exclusive remedy shall be to not use the information.

COPYRIGHTS

Trademarks owned by The Lubrizol Corporation or its affiliates. © The Lubrizol Corporation 2022, All Rights Reserved.