



Chemline 1400

Waterborne Aliphatic Polyurethane Topcoat

Description

Chemline 1400 is a waterborne aliphatic polyurethane that can be sprayed in a mold or used as a UV-stable topcoat. It is highlighted by:

- ✓ Rapid curing to reduce production times and improves cost efficiencies
- ✓ Extremely tough and flexible surface
- ✓ Excellent color retention qualities

Application Recommendations

Chemline 1400 is supplied in pre-measured gallon kits, such that a ½ pint of Crosslinker can be poured into a 1 gallon can of 1400.

Chemline 1400 should be mixed with a jiffy mixer for 1-2 minutes, taking care to avoid whipping air into the mix. Apply with standard airless spray equipment or a pressure pot.

For further detail or application training consult with a Chemline Technical Representative.

Packaging, Storage & Shelf Life

Chemline 1400 is available in 1 and 5 gallon kits. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months in factory sealed containers.

Safety

Chemline 1400 is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or fresh air hood. Spraying indoors requires forced ventilation. Be sure to read SDS in its entirety prior to use.

Application Properties

Property	Value
Mix Ratio, by weight	20 Base: 1 Crosslinker
Solids, by volume	32-40%*
Density	9.0-11.1 lbs/gal*
Pot Life	2-4 hours
Cure to Touch	3-5 minutes
Cure to Handle	10 minutes
Ultimate Cure	7 days
Recommended Thickness	1-2 mils WFT

*Property is color dependent

Physical Properties

Property	Value
Hardness, Shore A, D-2240	78 A
Tensile Strength, D-638	2200 psi
Elongation, D-638	220 %
Tear Resistance, D-624	270 pli
Impact Strength (direct), C-14	> 90 lbs
Flexibility (180° bend over 1/8 inch mandrel), D-522	Pass
Accelerated Weathering	
Gloss change	0.0 %
Color change (ΔE)	0.11
Finish	Flat

**Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Revised 01/2019

Chemline, Inc. • 5151 Natural Bridge Ave. • St. Louis, MO 63115 • Phone: (314) 664 - 2230
• 19500 S. Alameda St. • Los Angeles, CA 90221 • Phone: (310) 764 - 0820

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Chemline, Inc. hereunder are provided gratis and Chemline assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at your risk.



Chemline 1400

Waterborne Aliphatic Polyurethane
Topcoat

QUV Weathering — Chemline 1400 White

Total Time (hours)	29	94	259	537	990
Gloss	3	3	3	3	3
Gloss Change	0.00%	0.00%	0.00%	0.00%	0.00%
Delta L	0.02	-0.08	-0.06	0.02	0.01
Delta a	0.01	0.01	0.01	0.01	0.03
Delta b	0.05	0.06	0.07	0.13	0.08
Delta DE	0.05	0.10	0.09	0.13	0.08

Revised 01/2019

Chemline, Inc. • 5151 Natural Bridge Ave. • St. Louis, MO 63115 • Phone: (314) 664 - 2230
• 19500 S. Alameda St. • Los Angeles, CA 90221 • Phone: (310) 764 - 0820

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Chemline, Inc. hereunder are provided gratis and Chemline assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at your risk.