



Emtech® CL100 Water Based CrossLinker

CL108, CL132

Description	<p>Emtech® CL100 CrossLinker is a water soluble chemical additive used to elevate the durability and appearance of waterborne coatings by coupling the resin molecules of the film forming finish into tighter, harder bonds when fully cured. The purpose of CL100 CrossLinker is to give a performance boost to the physical characteristics of the finish it is being blended into.</p>	
	<p>Although rarely necessary in most wood finishing applications, sometimes a specific scenario calls for extra alcohol or detergent resistance. For instance, commercial bar tops and restaurant tables receive a lot of chemical abuse from both the patrons and the cleaning staff. The addition of 3-5% of CL100 CrossLinker into the waterborne finish of choice will boost the coatings resistance to alcohols and high pH cleaners to levels that will allow the cured finish to withstand a longer exposure to corrosive chemicals. Unlike aziridine or isocyanate catalysts - which have a very short pot-life due to their sensitivity to water - CL100 is only reactive to oxygen when the coating it is added into is allowed to form a film and air-dry. Therefore, the pot life of finishes fortified with CL100 water will remain functional for upwards of 100+ hours when stored in a sealed container, eliminating the expensive loss and waste of unused material.</p>	
Use	<p>For use in all Emtech® Waterborne topcoats and pigmented finishes to improve the final film formation qualities. CL100 Crosslinker provides the option to use the topcoat as a 1K or 2K system.</p>	
Features & Benefits	<p>Easy to Mix Multi-Functional Long Shelf-Stability Water-Reducible Non-Hazardous / Non-Flammable</p>	<p>Improves Adhesion Improves Chemical Resistance Improves Water Resistance Improves Final Film Hardness Improves Gloss Retention</p>
Directions for Use	<p>The following Methods of Addition are critical to a successful application.</p>	
Methods of Addition	<p>Pre-measure CL100 Crosslinker at 3-5% by liquid volume of the water-based finish to be added into. Gently stir the selected water-based coating to be cross-linked while slowly adding the pre-measured CL100.</p> <p>DO NOT POUR CROSSLINKER INTO THE RESIN WITHOUT SIMULTANEOUSLY STIRRING THE RESIN AT THE SAME TIME – This will create a sandy/gritty finish if the CL100 is not stirred into the resin while adding.</p> <p>Continue to stir the CL100/coating mixture for 2 minutes. Allow the cross-linked coating to settle and react for a minimum of 30 minutes before using. For best results premix CL100/coating 2-4 hours before applying. This will ensure optimum chemical reaction time and flow/leveling performance of the coating during spray or brush application. The minimum recommended temperature for use of crosslinked material is 65 degrees F. The optimum drying temperature for coatings fortified with CL100 is 70F-110F. Properly crosslinked material will be functional for a maximum of 100 hours -after which time the crosslinker will begin to deactivate. Any unused crosslinked finish can be re-energized with the addition of 2% more CL100 by liquid volume to minimize waste.</p>	



Physical Specifications

Liquid Density: 9.5/Gal.	Solids % by Weight: 100%
VOC Content Actual: 0.0	VOC Content Regulatory: 0.0
HAPS Content: 0.0	pH: 7.5 – 8.0
Viscosity: 20 sec. Zahns #2	Appearance: Clear Liquid / Water Clear
Dry Time: N/A	Spread Rate: N/A
Flash Point: Above 200 °F	Shelf-Life: 72+ Months
Freeze/Thaw Cycles: 3+	Photochemical Reactivity: 0

Clean-Up Procedures

All Target Coatings Emtehc® Series finishes cleanup with water. Rinse spray gun fluid handling equipment thoroughly with water after each use. If finish dries to a hard film soak gun parts in an acetone solution to soften the film for easier removal.

Industrial Hygiene Requirements

Use only in well ventilated areas. Avoid inhaling spray mist. Wear a NIOSH/MSHA approved respirator during spray applications.

Emergency First-Aid

Ingestion:

Administer large amounts of water.
DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

Inhalation:

Remove exposed person(s) to well ventilated area. Treat symptomatically.

Eyes:

Flush with fresh water. Seek medical attention.

Skin:

Wash exposed area with warm, soapy water. Seek medical attention if irritation occurs.

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