



EC-1800

Water-Based Clear Anti-Graffiti Coating

PRODUCT DESCRIPTION

EC-1800 is a Single Component, Quick-Dry, Water-Based Clear Urethane-Silicone Polymer Anti-Graffiti Coating. This coating exhibits very good film hardness, flexibility and excellent water, solvent, abrasion and impact resistance. Designed for use where High Slip, Easy Clean, Mar Resistance and Anti-Graffiti properties are required. EC-1800 formulation allows it to be safely used over murals, logos, vinyl lettering as well as most paints and coatings without harm to the surface. EC-1800 is a Low VOC coating with very low odor. Cleaning is accomplished using our EC-9920 Water-based, Non-toxic Graffiti Remover. EC-1800 also provides cost effective protection against water, salt, oil, chemical and alkali cleaners.

APPLICATION PROCEDURE

Always Test EC-1800 On The Surface You Will Be Coating Prior To Proceeding With Your Application. Determine spray, roll or brush technique for your particular surface and if one or more coats will be required. When satisfied with your test results, proceed to the project,

Surface Preparation: Surfaces to be coated must be clean and dry, free from oil and grease, loose rust and paint, weld spatter, dust and chalk. Any well cured existing glossy coatings should be de-glossed by light sanding to develop best adhesion.

Mixing, Thinning and Clean up: Stir the material well before use with a paint stick. **Do Not Shake** as air bubbles may become trapped in the coating. In most cases it is not necessary to thin EC-1800. If you find it necessary to thin EC-1800 you may add up to 5% clean drinking water. Clean up using soap and water while EC-1800 is in an uncured state. For best results clean all equipment as soon as the application is complete. After the material has cured you will need to use solvents to remove EC-1800.

Spray, Roll or Brush: For best results Spray EC-1800 with airless or air assisted spray equipment. EC-1800 may also be applied by roller or brush. Use a foam roller or a roller with a nap of 1/4"-3/8" depending on the texture of the substrate. Brushes should be polyester or nylon construction. Apply 4-8 wet mils to achieve 1-2 mils dry film thickness. On a smooth surface this will be achieved in a single application. On a porous or rough surface, multiple passes may be required to achieve 4-8 wet mils as some of the coating will be immediately absorbed into the substrate. A second coating pass within a few minutes will add to the mil thickness giving you the proper 4-8 wet mils. Do Not attempt to apply the coating over the recommended mil thickness as this coating dries quickly and added wet film thickness will cause water to be trapped in the coating as the surface dries, possibly creating a cloudy appearance or pin holes from out-gassing. EC-1800 dries to the touch in 20 minutes and dries hard in 40 minutes at room temperature (72F) at Relative Humidity of 55%. To accelerate drying/curing allow the coating to dry for 20 minutes and apply 150F heat for 4 hours or 300F heat for 20 minutes.

Cleaning Graffiti: No harsh chemicals are needed to remove graffiti. Our EC-9920 Water-based, Non-Toxic Graffiti Remover is recommended to easily clean the EC-1800 surface once spray paint or permanent marker is applied. EC-9920 is sprayed on the surface, allowed to penetrate the graffiti and a simple wipe with a cloth or sponge will remove most graffiti. A soft bristle scrub brush may be used on aged spray paint graffiti along with EC-9920. Wash the coating surface with clean water after cleaning. The coating is not harmed by EC-9920 and will remain to protect the surface from future attacks. Naphtha or MEK thinners may also be used to remove graffiti from EC-1800. Do Not use any solvent containing alcohol on the EC-1800 Coating as it may dull the finish. Do not use solvents on the coating before fully cured, 4-5 days at room temperature.

PHYSICAL CHARACTERISTICS

Shelf Life: 10 Mos. (Unopened) **Storage:** Do Not Freeze or Expose To High Heat **Coating Type:** Water-borne Urethane-Silicone Polymer **Color:** Clear **Solids:** by weight 40% **Coverage Rate:** Approx. 550 sq. ft. @ 1 mil DFT **Abrasion:** (CS 17/Kg/1000 cycles) <52 mg loss **Cure Time:** Complete in 4-5 days at room temperature. Dry to the touch in 20 minutes. **Force Cure :** 300°F for 20 min or 150°F for 4 hours. **VOC:** ASTM 3960-2.4#/gl. **Gloss:** 60°: >80 **Solvent Resistance:** ASTM D-4752: MEK/Toluene (50 double rubs): Pass **Impact Resistance:** ASTM D-2794: Direct/Reverse: >160 in lb **Heat Resistance:** Do Not exceed 300°F continuous service. This product is Low VOC and contains no chromates, zinc or free isocyanates.

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Ecological Coatings, LLC
P.O. Box 4202, Clifton Park, NY 12065, Phone: 518-664-3468, Fax 518-383-9585
EcologicalCoatings.com ec@ecologicalcoatings.com