



## FUSIONCLAD™ TC

### TECHNICAL DATA

### “EASY-PREP” WATERBORNE INDUSTRIAL STEEL COATING

#### THE PRODUCT AND ITS USES

The FusionClad™ family of coatings makes it possible to achieve industrial-grade protection for steel without the necessity of blasting or other elaborate surface preparation. After applying FusionClad™ Primer as directed, the applicator then applies FusionClad™ TC topcoat to complete the coating system. Alternatively, the applicator may use FusionClad™ TC Ultra for heavier duty applications requiring extra toughness.

FusionClad™ TC is paint-like to use; it is a single component water-reducible acrylic topcoat with very little odor, very low VOCs (volatile organic compounds) and quick curing. Apply by brush, roller or spray. It cures to a semi-gloss, enamel-like finish. For additional details, refer to table below and information overleaf.

The FusionClad™ system is suitable for protecting virtually any steel structure targeted for, or currently used in, atmospheric (i.e., aboveground) exposure. Use in the shop or in the field for coating steel structures, equipment, sheet metal, piping, furniture and storage tanks. An anti-microbial version is available by special order.

Note: for embedded, immersion or continually wet service, your Madison representative will recommend a system rated for “severe service”.

#### TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	5°C(40°F) to 50°C(120°F)
Viscosity		Paint-Like
Initial Setting Time	@ 20°C(70°F)	30 minutes
Curing Time Before Handling	@ 20°C(70°F)	4 to 6 hours
Recoat Time*	@ 20°C(70°F)	Up to 48 hours
Solids Content	ASTM D-1259	55% to 60%
Volatile Organic Compounds (VOCs)	ASTM D-2369	Less 100 grams/litre
Theoretical Coverage	N/A	(700 ft <sup>2</sup> /USgal/mil)
Adhesion to Steel	ASTM D-4541	Greater than 1000 p.s.i.
Ultraviolet Resistance	ASTM G-154	Excellent
Colors		Wide color choice; consult sales representative
Finish		Semi-Gloss

\*However, recoat window varies depending on ambient and substrate temperature and coating thickness.

NOTE: All statements, technical information and recommendations contained herein are typical of results obtained under laboratory conditions and are not intended to be used as contract specifications. For specification guidelines please contact Madison Chemical.

## APPLICATION INSTRUCTIONS - FUSIONCLAD TC™ TOPCOAT

CONTACT MADISON FOR DETAILED APPLICATION INSTRUCTIONS.

### A. SURFACE PREPARATION

FusionClad™ TC is designed to be applied over steel surfaces cleaned with Madison PreWash™ and primed with FusionClad™ Primer. Do not apply in wet or highly humid conditions or at temperatures below 10°C (50°F).

### B. APPLICATION OF COATING

- 1) This is a single component, self curing product. Before using mix thoroughly until homogenous. FusionClad™ TC may be diluted with clean tap water, but only when necessary.
- 2) FusionClad™ TC can be applied by brush, roller or single component airless spray equipment.
- 3) This product should only be applied at a maximum thickness of 3-4 dry mils (6-8 wet mils) at a time for ultimate surface appearance. If higher than 3-4 dry mils is to be applied, it has to be done in multiple coatings.
- 4) Use a good quality brush and roller (low pile) designed for water dispersible paints.
- 5) Use a new roller and brush every time. Alternatively, ensure that the used brush or roller is cleaned immediately after initial use and wrapped in a plastic bag to maintain moisture. It should be brushed or rolled out on a dry cloth to remove excess moisture before subsequent use. Brush and roller application may require multiple coats to achieve uniformity of appearance.

### C. CLEAN-UP AND STORAGE

Clean spills and spatters, including hands and tools, immediately after use, with soap and warm water. See application instructions for details. Store at or near room temperature. DO NOT FREEZE. Use product within 12 months of receiving

### HEALTH AND SAFETY

Product is intended for industrial use only. Product is non-flammable and does not contain any ingredients considered hazardous under normal use. Provide normal fresh air ventilation. If swallowed, DO NOT induce vomiting as this will cause additional throat irritation; contact physician. If splashed on skin, wash with soap and water. If splashed in eyes, wash liberally with clean water and contact physician; temporary irritation of eyes may occur. Prudence dictates that applicators use rubber gloves, safety goggles and protective clothing. Resins are inert when cured. See MSDS for more information.

### LIMITED TWO YEAR WARRANTY

Madison will replace any product which, in service for which it is suitable, fails to meet specifications within two years of sale and which is proven to be defective when applied according to instructions by a Madison Approved Applicator or Certified OEM Applicator. Madison accepts no responsibility or liability for any other loss, claim, damage, injury or expense, direct or consequential, in contract or negligence. This product replacement warranty is in lieu of any other right, warranty, guarantee or condition, statutory or otherwise, expressed or implied, whether as to fitness for a particular purpose or as to merchantable quality or otherwise.

The information contained herein is believed to be accurate as of the date of publication. Madison reserves the right to change product specifications without notice.

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