



## FERROGRIP™

### TECHNICAL DATA

### SURFACE PREPARATION COMPOUND FOR STEEL STRUCTURES

#### THE PRODUCT AND ITS USES

FerroGrip is a user-friendly surface preparation compound which, when applied to steel surfaces, dissolves mill scale, corrosion, oily films and other contaminants. This proprietary product is a foamy gel that is easy to use, water soluble and environmentally-friendly. It contains a rust-dissolving agent, a powerful degreaser, an industrial-grade surface penetrating compound and Madison's proprietary AP-50 Adhesion Promoter. All of these ingredients work to create a surface which is pristine and ready to be protected by any coating which also contains AP-50. FerroGrip, when mated with the appropriate Madison topcoat (see next paragraph), will work synergistically to create adhesion comparable to that achieved with near-white sandblasting. In this way, all the hassles associated with abrasive blasting are avoided: the capital and operating costs, the disposal problems, the logistical complexities and the inconsistent results, just to name a few.

For light-to-medium duty applications, topcoat FerroGrip with one of Madison's water-dispersible technologies such as the FusionClad series of acrylic and polyurethane primers and topcoats. For medium to heavy duty, prime the prepared surface with AlumiZinc "S", our next-generation Zinc Rich Primer, then finish off in the shop or at the job-site with the interior or exterior grade Madison topcoat of your choice, for example CorroCote "S" or AcrylaThane. Alternatively, you can simply apply two coats of AlumiZinc "S" for a galvanized look. All of these products are paint-like and are available with the same AP-50 Adhesion Promoter that is in FerroGrip. For rapid turnaround or for severe service conditions, many of Madison's plural component, instant-setting coatings now come with AP-50 as a standard ingredient, so as to work in conjunction with FerroGrip as a one-coat high-build system. Depending on the topcoat system chosen, the finished product is suitable for immersion and embedded service as well as atmospheric service.

Please note that a low viscosity version is also available, ideal for spraying hard-to-reach areas such as electrical transformer radiators or for dipping small parts.

#### TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Appearance	N/A	Foamy, Soap-like Aqueous Gel
Application temperatures	N/A	10° C (50° F) to 40°C (100°F)
Volatile Organic Compounds (VOCs)	ASTM 2369	zero
Pot life	N/A	indefinite
Adhesion	ASTM D-4541	Appropriate Madison Topcoat will achieve adhesion in excess of 2,000 psi
Flammability		Non-flammable and non-combustible
Theoretical Coverage		200-250 sq. ft/gal

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. 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.

## APPLICATION INSTRUCTIONS

CONTACT MADISON FOR DETAILED [APPLICATION INSTRUCTION BULLETIN](#) (also available online).

## SURFACE PREPARATION

File or grind any burrs, weld spatter or other surface roughness that may protrude through the subsequently-applied coating. Welds and other sharp edges should be rounded. On old structures, remove loose rust, scale and/or old paint by manual or power wire brush. Then apply FerroGrip as detailed below.

## APPLICATION PROCEDURES

FerroGrip should be applied full strength with a low pressure sprayer such as a portable pump-up sprayer or a pressure pot (see Application Instruction Bulletin). When spattered on the surface, FerroGrip can be applied to a thickness of 6-8 mils, which is the ideal amount for maximum effectiveness. Allow it to penetrate into the surface for 30 minutes or longer. Occasional re-wetting of the surface may be needed in hot weather and/or direct sunlight. Then rinse with a high pressure stream of straight tap water using a power washer with a rating of 1,000 psi or higher. FerroGrip is somewhat acidic (rinse water will have a pH of 4 or 5); therefore, if further neutralization is required to meet local disposal requirements, it is recommended to add 3-5% by volume of baking soda or caustic soda to the rinse water. Freshly cleaned surfaces should be force air dried to quickly remove all traces of moisture, as surface is very clean and will flash rust quickly. Apply a suitable Madison coating system (see "The Product and its Uses" above). Ask your Madison representative for specific recommendations.

## HEALTH AND SAFETY

FerroGrip is non-hazardous and environmentally "green". It can be used indoors or out. It does have a low pH and may irritate skin. Take all normal precautions associated when handling mild industrial chemicals and operating a pressure washer, for example wear safety glasses or goggles, gloves and protective clothing. This material is corrosive to Aluminum only. If swallowed, do not induce vomiting, give 3-4 glasses of water to dilute and get immediate medical care. Consult the MSDS for detailed information. Subject to adding soda as above, runoff water is safe for ground absorption or sanitary sewer disposal (assuming the surface being prepared is not contaminated with a hazardous substance requiring special disposal precautions).

## 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.

**NOTE:** The following are Trademarks and/or Registered Trademarks of Madison Chemical Industries Inc.:  
Madison, FerroGrip, AP-50 Adhesion Promoter, FusionClad, AlumiZinc, CorroCote and CorroPipe

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