

## Surface Preparation

Application surfaces must be structurally sound, and the overall structural integrity of the asset is critical to the overall success of any coating or overlay. Some surface damage such as deterioration, cracks and spalls can occasionally be repaired, but C2M does not provide structural improvement or enhancement.

C2M has been formulated to bond with the substrate surfaces, and even many previously applied coatings. Other materials (such as petro-chemicals) which could interfere with this process, must be removed. Remove any loose, soft or contaminated materials from the area that will be repaired or resurfaced. Typical methodology may include sand blasting, degreasing, scrapping, and water blasting.

A comprehensive system will include the following program:

- Remove all loose debris using a hand pump, spray on degreaser over the entire area.
- Let sit for 5 minutes (allowing degreaser to sit for longer will NOT increase effectiveness).
- Completely rinse degreased area 2 times.
- Let dry for 30 minutes before any further application.
- With extreme surface dirt or oil, you may have to apply a second time.
- You must repeat this process until the substrate is free of any petro-chemical substance.

When C2M is applied directly to a ferrous surface, the applicator will take steps to ensure full coverage over, if any, flash rust that has developed between surface preparation and product application.

Application C2M over flash rust is normal and acceptable for C2M as long as any flash rust is completely covered, and none is visible. If applying multiple coats of C2M, previous coats must be completely dry before a subsequent coat is applied.

## Mixing

The ratio between Maxon C2M Powder and Maxon C2M Emulsion is essentially 1 to 1 for spray applications. However, brush and roll on application methods will require slightly different Mix Ratios and Application Techniques.

For all application methods, the following protocol is advised:

Maxon C2M Emulsion should be first added into a clean container. Maxon C2M Powder should then be slowly added in the appropriate ratio so the fines of the powder are not dispersed in the air. Mix 1/3 of the C2M Powder and stir until the product looks consistent. Continue adding 1/3 of the powder and re-mixing until the entire Maxon C2M Powder has been introduced into the Emulsion. Mix each step for at least 2-3 minutes rotating the mix so that all areas of the container are free of clumped powder and the material should look consistent. Before putting into the spray unit the material shall be sieved using a mesh screen to remove any hard particles that may foul the spray equipment.

It is recommended that the applicator sample the mix on a non-critical asset before application on the desired asset to ensure mix consistency, color and results.

For brush or roll-on applications, a mix ratio should include slightly more (10-30% depending upon conditions, substrate and desired result) Maxon C2M Powder for each unit of C2M Emulsion.

Please note the protocol above, emulsion first then powder should always be part of the 1/3, 1/3, 1/3 process. Please note that this material can be reanimated by remixing with a minimum amount of water or emulsion.

## Sieve

If the applicator is spraying Maxon C2M, it should be sieved before application. This removes any particulates which might both prohibit a consistent finish and remove any particulates which may jam the applicator's spray gun. The size of the sieve should be proportional with the nozzle size of the applicator spray gun.

All spraying equipment must be cleaned. If there is any break in the spraying procedure, water should be immediately used to clean the nozzle and hose.

**YOUR EQUIPMENT WILL BE PERMANENTLY DAMAGED IF NOT CLEANED WITH LOTS OF FRESH, CLEAN WATER DURING ANY INTERRUPTION IN SPRAYING.**

## General Application Notes

Maxon C2M can be applied using a sprayer, brush or roller depending upon the application tools available, substrate, volume of surface to cover, vertical or horizontal surface, hard to reach areas or unique thickness requirements. Please review the above information regarding a thoroughly cleaned substrate. A light application of water could be applied to the area in hot conditions but if sprayed it is NOT mandatory due to the effects of a high volume, low pressure sprayer (15-80psi) rebound or splash back should be minimal.

Using any application method, to avoid mud cracking, do not use too much material on a single coating. Instead, use less material on more layers, and make sure the previous layer properly dries before adding a new layer. If mud cracks develop, simply wait until the coat dries. Then re-coat the surface with a 1 to 1 ratio (emulsion to powder) and apply an additional coat. It is recommended that applicators employ appropriate protection measures, which depending upon the application location, may include gloves, eye protection, dust masks or respirators.

## Spray Application

During the application there should be approximately 6 to 12 inches between the tip of the spray gun and the substrate – depending upon the spray equipment and substrate. Adjust the spray gun valve so the gun is spraying a 6 inch fan, using minimal pressure. A 50% overspray technique is recommended. For optimal results, a dual coat program should be applied. First spray one coat horizontally across a section, and then complete the process next with a horizontal spray direction. Do not spray at higher pressures than recommended above, as the mixture may dry before landing on the substrate. It is acceptable practice to brush hard to reach areas after spraying. Continue to agitate the Maxon C2M solution during application. Let each coat dry completely (to touch) before applying a second coat.

## Edges:

Ensure proper coverage on edges, as during normal hydrolysis induced cure, the material may become thinner than expected. Brush edges or corners before spraying the surface to ensure enough material is in contact with the substrate.

All spraying equipment must be cleaned. If there is any break in the spraying procedure, water should be immediately used to clean the nozzle and hose.

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## ***Application (continued)***

### **Brush or Roller Application:**

The applicator should treat the brushing, rolling or troweling of Maxon C2M the same as a latex paint when it comes to consistency when mixed properly. When brushing on a vertical surface, there should be virtually no liquid running down the substrate during a horizontal pass. Brush marks may be visible after the first brush or roller pass, but after a second pass the surface will be smoother. Brushed, Rolled or troweled surfaces will not have as glossy a surface as a sprayed application. Continue to agitate the C2M solution during application. Let each coat dry completely before applying a second coat.

### **Edges:**

Ensure proper coverage on edges, as during normal hydrolysis induced cure, the material may become thinner than expected. Make two vertical passes on edges, and then finish with a horizontal cover to ensure proper coverage and that enough material is in contact with the substrate.

Refer to our Material Safety Data Sheet (MSDS) regarding regulatory compliance, safety, hazards, spill procedures and disposal of this product.

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 OR 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.