



GREENSOLV
ENVIRONMENTAL PRODUCTS

PRE-PAINT GUIDE

The life of a coating depends as much on the degree and quality of surface preparation as on the selected coating system.

HOW TO PREPARE ALUMINIUM AND OTHER METALS:

COPPER, ZINC, GALVANIZED STEEL,
TIN, BRONZE, BRASS

BEFORE PAINTING

According to SSPC (The Society for Protective Coating)

TYPES OF CONTAMINANTS:

- OIL AND GREASE
- DIRT AND DUST
- OXIDATION
- COMBUSTION RESIDUE (carbon)
- DETERIORATED PAINT†

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MADE IN CANADA

BEFORE PAINTING, MAKE SURE THAT:

- 1. Surface is adherent and has the right surface profile**
- 2. Ambient temperature is above 10°C**
- 3. Surface is free of the following contaminants:**
 - Oil and grease, dirt and dust, oxidation, combustion residue (carbon), deteriorated paint†

Note: chemical cleaning can be performed with solvents OR with water borne cleaners. In this document, we recommend the use of water borne cleaners for 3 reasons: 1- much more efficient; 2- much greener and 3- much cheaper. The only advantage of using solvents (ex: Greensolv 920EK, 940, 941 and 960) is to avoid a water rinse. To use solvent cleaners, contact your Greensolv representative.

Note: ALUMINIUM, COPPER, ZINC, TIN and their most common alloys: BRONZE and BRASS are soft metals that are chemically reactive, so special precautions must be exercised when selecting a surface preparation. The use of chemical strippers is a reliable method to remove adherent paint; contact your Greensolv representative for more information. Stainless steel wire brushes, abrasive mats and/or sanders are good choices to remove oxidation, to make an old intact coating more adherent or to create a surface profile. When blast cleaning, the most common abrasives are: aluminum oxide (80 grit) and garnet at 60 – 70 psi. Do not use carbon steel abrasives.

HEAVY DEGREASING

ALUMINIUM, COPPER, ZINC, TIN, BRONZE, BRASS

- For bare metal without oxidation
- For metal completely or partially covered with paint, without oxidation
- For assemblies containing more than one metal (ex: steel and aluminum)

Cleans: Oil and grease, dirt and dust, combustion residue (carbon)

Product:

G-CONTROL 420 – MULTI-METAL DEGREASER – concentrate

- Dilution: 25% G-CONTROL 420 / 75% water
- Coverage: 450 sq. ft./gallon – diluted product (ratio 25/75)

CLEANING OXIDATION & ETCHING*

ALUMINIUM, COPPER, ZINC & GALVANIZED STEEL,
TIN, BRONZE, BRASS

- For metal with oxidation (bare or painted)

Cleans: Oil and grease, dirt and dust, oxidation

Product:

G-CLEAN 207 – RUST & CALCIUM REMOVER – concentrate

- Dilution: 33% G-CLEAN 207 / 67% water
- Coverage: 450 sq. ft./gallon – diluted product (ratio 33/67)



†Depending on the customer's need and the agreement between the parties, adherent paint might not have to be removed before repainting. However, it is crucial that loose paint be removed with a scraper, a sander or a grinder. If you wish to maximize the adherence, sand the whole painted surface. Use G-CONTROL 420 or G-CLEAN 207 to clean bare metal as well as painted surfaces before repainting.

*G-Clean 207 allows you to clean & etch non ferrous metals, especially galvanized steel that has a poor adherence if not etched. Let G-Clean 207 work for 15 minutes before rinsing with plenty of water. Alternatively, G-Clean 307 can be used to clean and etch non ferrous metals.

STEP 1

DEGREASING, CLEANING OXIDATION & ETCHING



Note: use G-CONTROL 420 for a surface free of oxidation (bare or painted). Use G-CLEAN 207 for a metal surface with oxidation (bare or painted).

WHEN HEAVILY CONTAMINATED, FOLLOW THESE TIPS:

- Once applied, scrub the surface with a brush
- When diluting or rinsing, use warm or hot water
- Let the product work on the surface for up to 30 minutes (reapply product if surface dries)
- Prepare a solution of DEGREASER by adding 75% water to a volume of 25% G-CONTROL 420.
- AND/OR Prepare a solution of RUST & CALCIUM REMOVER by adding 67% water to a volume of 33% of G-CLEAN 207
- Apply the diluted cleaner on the surface with a sprayer or low pressure pump
- Let work for 5 to 10 minutes, when cleaning & etching with G-Clean 207, let work for 15 to 20 minutes
- Scrub the surface with a brush or a rag if needed

STEP 2

WATER RINSE WITH PLENTY OF WATER



- Rinse with plenty of low pressure water or with a pressure washer. Rinse until foam disappears

STEP 3

AIR DRY



- Let the surface dry and make sure it does not get contaminated again before applying a fresh coat of paint

STEP 4

APPLYING A NEW COATING



- At this point, the surface is dry, free of contaminants and has a surface profile that maximizes adherence
- You can now start painting