ATLAS
ARCHITECTURAL METALS INC.

Cleaning & Care



atlasarchmetals.com

PAINTED AND ANODIZED FINISHES

Certain precautions must be taken when cleaning painted and anodized surfaces:

- Excessive abrasive rubbing should not be used since it can damage the finish.
- Avoid drips and splashes and remove run-downs as quickly as possible.
- Consider the effects of run-downs on shrubbery, personnel and equipment and schedule cleaning appropriately.
- Strong cleaners should not be used on window glass and other components where they might come into contact with the aluminum.
- Avoid temperature extremes which can accelerate chemical reactions, evaporate or strengthen cleaning solutions, cause streaking, staining or blotching.
- Do not mix cleaners or substitute a heavy-duty cleaner for a safer, milder cleaner.
- Never use paint removers or aggressive alkaline, acid or abrasive cleaners.
- Always do a test on a small area first and follow manufacturers recommendations for mixing and diluting cleaners.
- Make sure cloths, sponges and cleaning equipment are grit-free.

Cleaning procedures to remove construction or accumulated environmental soils and discoloration should be initiated as soon as possible. Mortar, cement and other alkaline materials will quickly corrode anodic coatings if allowed to dry on the metal surface. Cleaning should start at the top of the building and proceed to the ground level in a continuous drop the width of the stage or scaffolding. The type of procedure depends upon the degree of soiling.



REMOVAL OF NON-WATER SOLUBLE DEPOSITS





Trial and error testing employing progressively stronger cleaning procedures can determine which method will be most effective:

- A forceful water rinse should create initial surface agitation.
- If soil is still present after air drying the surface, scrubbing with a soft brush or sponge and concurrent spraying with water should be attempted.
- A 5 percent solution of industrial or commercial detergent and water should be applied with soft brushes,sponges or cloth using uniform alternate horizontal and vertical motion. Detergent should be safe for bare hands—stronger detergents should be spot tested.
- After washing, the surface should be rinsed thoroughly with clean water and allowed to dry. Do not allow detergent solution to dry on aluminum.
- Cleaner run-down should be minimized and rinsed immediately.
- A thorough rinse should remove solution from joints, crevices and surfaces.
- If it is necessary to remove oil, wax, polish or similar materials from anodized finishes, MEK, mineral spirits or an equivalent solvent is recommended.(See cautions † listed under “Removal of Non-Water Soluble Deposits”).
- Always do a test on a small area first and follow manufacturers recommendations for mixing and diluting cleaners.
- Make sure cloths, sponges and cleaning equipment are grit-free.

PAINTED FINISHES

Removal of Stains:

- Sodium hypochlorite solution (laundry bleach, Clorox) may assist in removing certain stains from painted finishes.
- Hydrochloric acid, or 10 percent muriatic acid, diluted with 10 volumes of water, may assist in removing rust or alkali mortar stains from PermafluorTM surfaces.
- Limit contact to 5 minutes. Caution: acid solutions are corrosive and toxic. Flush all surfaces with water immediately after use.
- Ascetic acid (vinegar) or oxalic acid solutions may be used for the same purpose. Flush with water.
- Anodized surfaces should not be washed with acidic or caustic solutions.

MILDEW REMOVAL

Remove mildew from painted aluminum finishes with a basic solution of:

- 1/3 cup detergent
- 2/3 cup trisodium phosphate (TSP)
- 1 quart sodium hypochlorite, 5% solution (bleach)
- Rinse with clear water immediately.









ANODIZED FINISHES

Removal of Stains:

Once all the general cleaning procedures have been exhausted, cleaning with an abrasive pad soaked in clean water or a mild detergent cleaner may be tried:

- Using uniform pressure, hand scrub the metal surface using a palm size nylon cleaning pad. Thoroughly wet with clean water and a mild detergent cleaner or pumice powder. Start at the top and work down, rubbing in the direction of the metal grain.
- After scrubbing, the surface should be rinsed thoroughly with clean water or wiped with solvent to remove all residue.
- The surface should then be air dried or wiped dry with a chamois, squeegee or lint-free cloth, particularly if cleaner has dried on the surface.
- A power cleaning tool, such as an air-driven reciprocating machine fitted with cleaning pads, may be necessary for removal of unusually heavy soils. During this operation, the surface being cleaned must be continually wetted with clean water or a mild detergent cleaning solution to provide lubrication and a medium for carrying away the dirt. The machine should move in alternate vertical and horizontal strokes.
- After machine scrubbing, the area must be rinsed and thoroughly scrubbed again with a stiff bristle brush. A final rinse completes the operation and the cleaned surface is allowed to air dry or is wiped dry. It is important to remove promptly cleaner run-down on uncleaned surfaces to avoid staining.

REMOVAL OF NON-WATER SOLUBLE DEPOSITS

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- Limit contact to 5 minutes. Caution: acid solutions are corrosive and toxic. Flush all surfaces with water immediately after use.
- Ascetic acid (vinegar) or oxalic acid solutions may be used for the same purpose. Flush with water.

REMOVAL OF NON-WATER SOLUBLE DEPOSITS

Alcohols	Petroleum Solvents	Aromatic and Chlorinated	Ketones, Esters and Lacquer Thinner	Acetone Paint Remover
Denatured (ethanol) Isopropyl (rubbing)	VM&P Naphtha Mineral Spirits Turpentine (wood or gum spirits)	Xytol (Xylene) Toluol (Toliene)	Methyl Ethyl Ketone (MEK) Methyl Isobutyl Ketone (MIBK) Ethyl Acetate (nail polish remover) Butyl Acetate Lacquer Thinner	Acetones Paint Removers
Cautions: Use with care. See cautions above	**Cautions:** Use with care. See cautions above	**Cautions:** Use with care. See cautions above. These solvents should be used with caution on painted surfaces and limited to a maximum of five minutes exposure. A test should be carried out before using them.	**Cautions:** Use with care. See cautions above. Use with extreme caution on painted surfaces. Contact should be limited to a maximum of one minute and a test should be carried out prior to use. Manufacturers are not responsible for damage from unrestricted use.	**Cautions:** These should NOT be used on painted surfaces.

REFERENCE PUBLICATIONS

Recognizing the need for the aluminum industry to provide information on the care and maintenance of exterior wall finishes, the AAMA has released a two publications:

AAMA 609, Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum.
AAMA 610, Voluntary Guide Specification for Cleaning and Maintenance of Painted Aluminum Extrusions and Curtain Wall Panels.

To obtain a copy of these publications, contact: American Architectural Manufacturers Association.

LIMITED WARRANTY AND REMEDY ANODIZED FINISHES

This is to certify that Atlas Company, Inc. (hereinafter "Atlas") hereby warrants to its customers and all subsequent purchasers and owners of the project incorporating Atlas products (hereinafter "Customer(s)"), subject to every term, condition and limitation stated herein, that the anodized finishes applied to the aluminum material (hereinafter "Metal") on the project identified as:

Job Name: Your Job Name Here
Order(s) #: 99999999

for a period of two (2) years for Class II finishes and five (5) years for Class I finishes from the date of substantial completion of the project, provided however, that the Limited Warranty shall begin in no event later than six (6) months from the date of shipment by Atlas for the start of the warranty period hereunder.

- **Will not change color more than five (5) DEcmc as determined per AAMA 611.**
- **Will not crack, blister, check or peel.**

THIS LIMITED WARRANTY WILL NOT APPLY TO OR COVER, AND ATLAS HEREBY DISCLAIMS ALL LIABILITY FOR ANY OF THE FOLLOWING:

- defects caused by depreciation or normal wear or other occurrences beyond Atlas control;
- damage to the finish occasioned by moisture or other contamination detrimental to the finish because of improper storage of the finished Metal prior to installation;
- water damage due to condensation caused by improper repackaging of the finished Metal prior to installation;
- damage to the finished Metal caused by handling, shipping and/or installation, or by use of the Metal with any parts, gaskets, glazing materials, components or sealants of other manufacturers used with Atlas products, or any lack of performance of Atlas products attributable to such items;
- damage due to finished Metal caused by exposure to caustic or acidic materials;
- any particular application or selection of the Metal for any particular project or design;
- any application of the anodized finish on any Metal that is also hardware; and
- any product which has been subject to abuse, alterations, modification, neglect, misuse, abnormal use, accident, fire, war, flood, falling objects, external forces, earthquakes, acts of God, or to which parts not supplied by Atlas have been added.

A systematic maintenance program must be instituted by the purchaser or user to prevent the build-up of deposits on the anodized surface such as dirt and salt. The surface must be cleaned at least annually in accordance with AAMA 609 & 610 so as to prevent the accumulation of these harmful deposits. More frequent cleaning may be reasonably required in some geographical environments such as heavy industrialized or coastal areas.

A FAILURE TO INSTITUTE AND REASONABLY EVIDENCE A SYSTEMATIC MAINTENANCE PROGRAM AS DESCRIBED ABOVE WILL VOID THIS WARRANTY.

SAMPLE

All decisions regarding the existence of defects in material and workmanship and the occurrence of any of the matters described in the preceding paragraphs or affecting this Limited Warranty shall be made by Atlas and shall be final and binding upon the parties.
The sole and exclusive remedy with respect to this Limited Warranty or with respect to any other claim relating to defects or any other condition or use of the products supplied by Atlas, however caused, and whether such claim is based upon warranty, contract, negligence, strict liability or any other theory, is limited to, at Atlas sole discretion, replacement or refinishing of the defective Metal or repayment by Atlas of the purchase price paid to it. Refinishing of the defective Metal shall be performed by using standard finishing practices and materials as selected by Atlas. Atlas reserves the right to approve any contract for refinishing of defective Metal. The warranty on any refinished and/or replacement coated Metal shall continue for the remainder of the original warranty period. At no time does this warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration, without written notice and agreement by a duly authorized officer of Atlas. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this warranty becoming null and void.

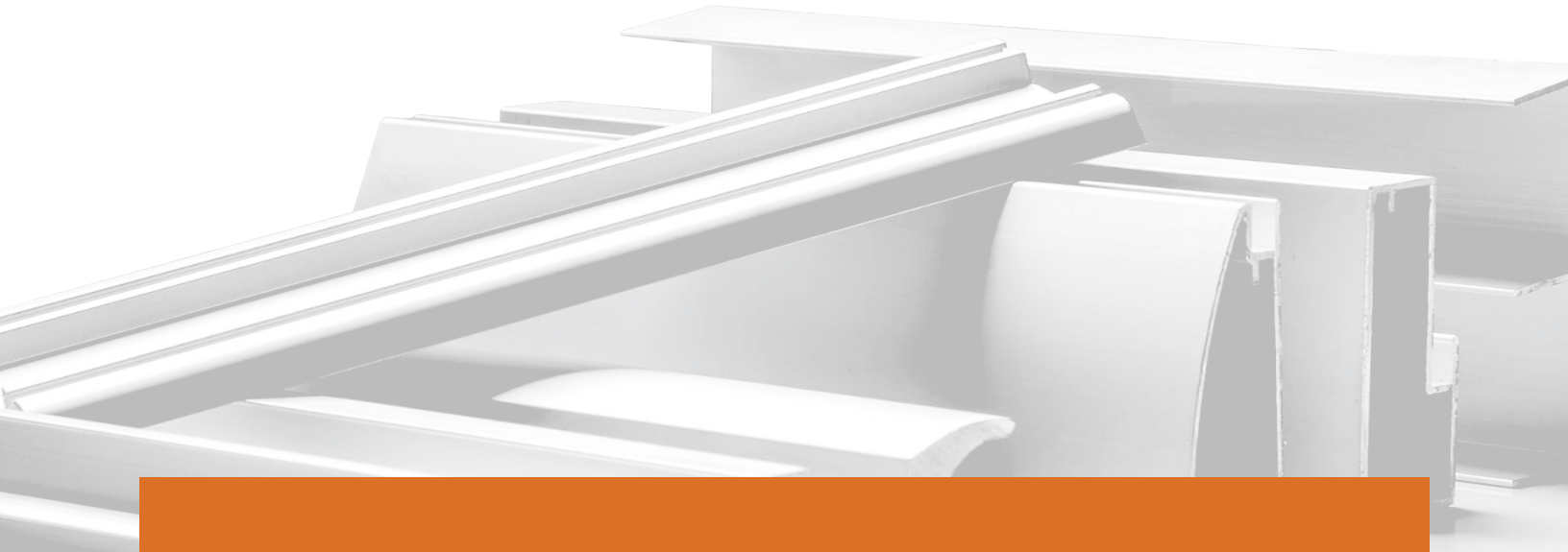
IN NO EVENT SHALL ATLAS BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOOD WILL, OR OTHER COMMERCIAL LOSS OR INJURY.

Claims under this Limited Warranty must be made to Atlas in writing within sixty (60) days after discovery of the defective finished Metal. Failure of the claiming party to notify Atlas within such period shall automatically relieve Atlas of any and all responsibility and/or liability. Atlas must be given a reasonable opportunity to inspect the finished Metal claimed to be defective. In the event of a claim under the warranty, Customer shall furnish proof of the date of substantial completion and shall demonstrate that the failure of the product was due to a breach of the warranty stated herein.

This Limited Warranty will apply only to Metal which is supplied by Atlas and used within North America (United States, including Hawaii, and Canada) unless Atlas agrees otherwise in writing.

No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this Limited Warranty shall be binding on Atlas unless made in writing and signed by a duly authorized officer of Atlas.

SAMPLE



All notices given under or pursuant to this Limited Warranty shall be in writing and sent by registered mail, postage paid, return receipt requested, to the party to whom such notices are to be given, as follows:

(a) Atlas

Atlas Architectural
Metals, Inc. Attn:
11940 Brittmoore Park Dr.
Houston,Tx 77041

(b) Customer

Your Company Name Your
Street Address Anytown,
USA 99999-0000

All such notices as set forth above shall be considered served when received.

Customer's agreement to and acceptance of this warranty shall be indicated by signing and returning a copy of this document to Atlas.

SAMPLE

President, Atlas Architectural Metals,Inc.
Date Issued:

Accepted By:

Customer: _____
By: _____
Signature: _____
Title: _____
Date Signed: _____

ATLAS
ARCHITECTURAL METALS INC.

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