

PL2016-26
PL201600026

From: Tom Schroeder <tschroeder@reztark.com>
Sent: Thursday, February 18, 2016 8:46 AM
To: Centinario, Michael
Subject: Crayola - Exterior Branding - Dev. App
Attachments: 2016-02-17_Dev. App. signed.pdf; Crayola Exterior_Permit_Arch.pdf; 074213.001a.pdf

Michael,

Please find enclosed, our completed Development Application, Architectural dwgs. and cut sheets of the metal panel systems per your request. We will have the contractor, PCL, drop off a check for \$130.00.

Let me know if you need anything else.

Thx.

Tom Schroeder, RA
Director of Architecture

reztark

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April 11, 2016

Mr. Mike Centinario
City of Bloomington – Planning Dept.
1800 West Old Shakopee Road
Bloomington, MN 55431

RE: The Crayola Experience – Mall of America
Exterior Finish Warranties

Dear Mr. Centinario:

Per your request, we have provided warranty information to your office for the finishes of the three metal systems that will be installed for the Crayola Experience at Mall of America. At this time, the provided warranties are samples since it is our understanding that the valid 30 year warranties will not be provided until the material has been manufactured and delivered. Once valid warranties have been provided, your office will receive a copy of each warranty. In reference to the architectural drawings, the system and the warranting parties are listed below:

M-1: Reynobond (Alcoa Architectural Products)
M-2: Firestone Building Products Company, LLC
M-3: Dura Industries

Please let me know if you have any questions or need anything else.

Very Truly Yours,
reztark | design studio



Ian Ramous, RA, NCARB



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LIMITED WARRANTY AND REMEDY PVDF COIL COATED FINISHES

REYNOLDS METALS COMPANY D.B.A. ALCOA ARCHITECTURAL PRODUCTS

A wholly owned subsidiary of Alcoa

REYNOBOND® ALUMINUM COMPOSITE MATERIAL, REYNOLUX® PROFILE PRODUCTS, AND FLAT SHEET PRODUCTS

Coated with Colorweld® 300, Colorweld® 500, Colorweld® 500XL, Colorweld® 500 Mica

This warranty is issued by Alcoa Architectural Products ("Alcoa") to the property owner (the "owner") identified below and applies to the finish on Alcoa REYNOBOND aluminum composite material, profiled products, flat sheet products and coil products coated with either Colorweld 300, Colorweld 500, Colorweld 500XL or Colorweld 500 Mica coatings, (the "products") and installed at the property (the "property") identified below.

PROPERTY OWNER SAMPLE

PROPERTY ADDRESS SAMPLE

CITY SAMPLE STATE (OR COUNTY) SAMPLE ZIP SAMPLE

DATE INSTALLED SAMPLE

DEALER'S NAME SAMPLE

DEALER'S ADDRESS SAMPLE

CITY SAMPLE STATE (OR COUNTY) SAMPLE ZIP SAMPLE

DEALER'S SIGNATURE SAMPLE

PRODUCTS: ☐ Reynobond ACM ☐ Reynolux Profile Products ☐ Flat Sheet

SUBSTRATE: Aluminum

PRODUCTS: ☐ Colorweld 300 ☐ Colorweld 500 ☐ Colorweld 500 Mica ☐ Colorweld 500 XL

Warranty coverage is subject to the terms, conditions, limitations, remedies and legal rights set forth below:

1. The duration of this warranty (the "warranty period") shall be in accordance with the warranty table shown below in this document and shall apply worldwide.
2. The warranty period shall commence six (6) months from Alcoa's initial shipment of the product, or upon substantial completion of the job, whichever occurs first.
3. Alcoa warrants that during the warranty period the products will not peel, check, or crack (except for such slight crazing or cracking as may occur on normal roll-formed edges or break bends at the time of roll forming or other fabrication of pre-painted panels, sheet or coil and which is accepted in the industry as standard) as a direct result of manufacturing defects.
4. Alcoa warrants that, in the absence of ponding or standing water, the products will not chalk in excess of a numerical rating of 8 during the warranty periods explained in chart shown below when measured in accordance with the standard procedures specified in ASTM D-4214, Method A. Notwithstanding the foregoing, Alcoa makes no warranty against chalking for any embossed Products that are installed 46° or more from the vertical.
5. Alcoa warrants that, in the absence of ponding or standing water, the products will not fade or change during the warranty periods explained in the accompanying chart in excess of 5Δ E units, when measured according to ASTM D-2244-02, paragraph 6.2.2 CIEL*a*b*10°. Measurements are taken on exposed paint surfaces which have been sufficiently cleaned of external deposits and chalk. Notwithstanding the foregoing, Alcoa makes no warranty against fading or color change for any embossed products that are installed 46° or more from the vertical.
6. This warranty covers only the particular defects described in this certificate and only if they arise during normal use and service. It does not cover defects attributable to causes or occurrences beyond Alcoa's control and unrelated to the manufacturing process, including but not limited to, faulty or improper installation, normal weathering, exposure to corrosive atmosphere (such as those contaminated with salt spray, acid rain, harmful chemicals or vapors), mildew, unreasonable use, misuse, physical abuse, accidental damage, vandalism, use of incompatible accessories, fire, flood, earthquake, lighting, ice or windstorms, or other acts of God, windborne objects, building settlement or structural failures (including walls and foundations) or the use of harmful cleaning compounds, intermittent or continual submersion in water or any other liquid or solid material, deliberate damage, improper handling by erectors, improper fabrication of flat sheet or coil, mechanical damage or any other physical damage. Alcoa recommends that there be a systematic fresh water rinse maintenance program in effect in areas of high salt concentration (such as adjacent to the seashore and/or an industrial atmospheres) so as to prevent the accumulation of concentrated salt deposits





7. This warranty does not cover damage to the coating that occurs prior installation of the product, including, without limitation, contamination occurring during shipment of the product to the jobsite or during storage at the jobsite. Forming REYNOBOND® panels at temperatures below an ambient temperature of 60°F (16°C) may adversely affect the appearance and performance of the Colorweld finish.
8. This warranty applies only to products with Alcoa's standard substrate metals (i.e., galvanized steel conforming to the latest issue of ASTM A924 and ASTM A653, G90 Class, or aluminum of either 3105, 3003, 3004, 5005, Alclad 3003 or Alclad 3004 alloy). Unless this warranty is extended to the owner through a separate document signed by an officer of Alcoa, it shall not apply if the owner or Alcoa's customer requested the use of a substrate metal that is non-standard.
9. Non-uniform color changes that result from unequal exposure to sunlight and/or the elements are not covered by this Limited Warranty unless such color change meets the definition of Color Change above.
10. All claims hereunder must be submitted in writing to: Alcoa Architectural Products, P.O. Box 4129 Eastman, GA 31023-4129. This claim must be accompanied by this certificate, fully completed and signed by the dealer that furnished the product to the owner or a copy thereof. IN ORDER TO QUALIFY FOR WARRANTY COVERAGE, ALL CLAIMS MUST BE SUBMITTED WITHIN THIRTY (30) DAYS FROM THE DATE THE DAMAGE OR DEFECT IS FIRST DISCOVERED OR COULD HAVE BEEN DISCOVERED, BUT IN NO EVENT MAY CLAIMS BE SUBMITTED MORE THAN THIRTY (30) DAYS FOLLOWING THE EXPIRATION OF THE WARRANTY PERIOD.
11. Alcoa shall be given a reasonable opportunity to inspect the product claimed to be defective. If after inspection of the product, Alcoa determines that the claimed defect is covered by this warranty, Alcoa, as its sole option, shall refinish, repair, or replace, the defective product without charge to the owner.
12. In no event does Alcoa's warranty cover the cost of labor or sundry materials required to remove and/ or replace any defective product.
13. All warranty work will be performed by Alcoa or by a company, dealer, contractor, applicator, or distributor selected by Alcoa. 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 Alcoa. 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. Since there may be a color variance between the replacement or refinished product and the originally installed product due to the normal weathering (i.e. exposure to sunlight and extremes of temperature and weather and aging) of the originally installed product, this condition shall not be indicative of a defect in either the replacement or refinished product of the originally installed product.
14. Alcoa reserves the right to discontinue or modify its product lines and coating colors. If the original product or coating color is no longer available, Alcoa, will, at its option, either substitute a product or coating color of comparable quality or refund the purchase price of the defective product only.
15. The warranty period applicable to any refinished, repaired or replaced products shall be for the remaining un-expired portion of the original warranty period.
16. IT IS UNDERSTOOD AND AGREED THAT THE REMEDIES PROVIDED FOR HEREIN ARE EXCLUSIVE WHETHER FOR BREACH OF EXPRESS WARRANTIES OR OTHERWISE AND SHALL CONSTITUTE THE OWNER'S EXCLUSIVE REMEDY AND ALCOA'S EXCLUSIVE LIABILITY. IN NO EVENT SHALL ALCOA BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, PUNITIVE, SPECIAL OR CONSEQUENTIAL DAMAGES FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTIES IN CONNECTION WITH THE PRODUCT. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY EXTENDED BY ALCOA IN CONNECTION WITH THE PRODUCT, AND IT EXCLUDES ALL OTHER WARRANTIES, REPRESENTATIONS OR GUARANTEES, EXPRESS OR IMPLIED, WRITTEN OR ORAL, BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ALCOA'S AGGREGATE TOTAL CUMULATIVE LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE DOLLAR AMOUNT OF THE PURCHASE PRICE.
17. Owner is solely responsible for proper selection of Alcoa's products. Owner agrees that it will use Alcoa products only for their intended uses and according to the specifications and limitations established by Alcoa from time to time. Owner acknowledges and agrees that Alcoa products are to be used for commercial applications and are not intended for residential individual single family dwellings. Owner shall indemnify, defend and hold Alcoa harmless from and against any and all damages arising out of or relating to use in residential individual single family dwellings, improper product selection, application, use, misuse, neglect, abuse of products or incorporation of products.
18. This warranty is extended only to the owner and is not assignable or transferable. . Any such assignment or transfer shall render the warranty null and void.
19. Laws and building and safety codes governing the design and use of glazed or coated materials vary widely. Seller does not control the selection of glazing or coating materials and assumes no responsibility therefore.
20. This warranty sets forth the entire agreement between the owner and Alcoa relating to the products This warranty may not be modified or changed except by a written document signed by an officer of Alcoa Architectural Products.

21. The sale of Alcoa's products hereunder with shipping addresses located in the United States shall be governed by the laws of the Commonwealth of Pennsylvania, excluding its laws related to choice or conflicts of law. The sale of Alcoa products hereunder with shipping addresses located in Canada shall be governed by the laws of Ontario and the federal laws of Canada applicable therein. The United Nations Convention on Contracts for the International Sale of Goods is expressly disclaimed and does not apply to the sale of Seller products. Any and all disputes between the parties that may arise pursuant to this order will be heard and determined before an appropriate arbitrator, federal or state court located in Pittsburgh, Pennsylvania. The owner hereto acknowledges such court has the jurisdiction to interpret and enforce the provisions herein and/ or an arbitrator's judgment, and the Customer waives any and all objections that they may have as to personal jurisdiction or venue in any of the above courts.

			Type of Environment or Location		
			Residential, Commercial and School - buildings used for habitation distribution centers, hotels, shopping malls, office buildings assembly factories and schools located in rural or residential areas	Industrial - steel mills, power generating stations, oil fields, oil refineries, ore mines, chemical plants, paper mills, or other unusual environmental exposure	Severe Marine - one mile to within 1,000 feet of salt water, there is no warranty if closer than 1,000 feet†.
Colorweld® 300	Color Δ E<5.0/ 7.0 Vertical/Horizontal (in years) Chalking Rating >8 /6 Vertical/Horizontal (in years)	Film Integrity (in years)	20	No Warranty	20
		Between 20 North and South Latitude	10	No Warranty	10
		Above 20 North and below South Latitude	20	No Warranty	20
		Between 20 North and South Latitude	10	No Warranty	10
		Above 20 North and below South Latitude	20	No Warranty	20
Colorweld® 500	Color Δ E<5.0 (in years) Chalking >8 Rating (in years)	Film Integrity (in years)	30	No Warranty	20
		Between 20 North and South Latitude	20	No Warranty	12
		Above 20 North and below South Latitude	30	No Warranty	20
		Between 20 North and South Latitude	25	No Warranty	12
		Above 20 North and below South Latitude	30	No Warranty	20
Colorweld® 500 Mica	Color Δ E<5.0 (in years) Chalking >8 Rating (in years)	Film Integrity (in years)	30	No Warranty	20
		Between 20 North and South Latitude	25	No Warranty	12
		Above 20 North and below South Latitude	30	No Warranty	20
		Between 20 North and South Latitude	25	No Warranty	12
		Above 20 North and below South Latitude	30	No Warranty	20
Colorweld® 500 XL	Color Δ E<5.0 (in years) Chalking >8 Rating (in years)	Film Integrity (in years)	30	25	25†
		Between 20 North and South Latitude	25	15	15†
		Above 20 North and below South Latitude	30	25	25†
		Between 20 North and South Latitude	25	15	15†
		Above 20 North and below South Latitude	30	25	25†

† There is no 1000 ft limitation for the warranty period on Colorweld® 500 XL finishes

- This limited warranty applies only to products sold by Alcoa and applied to metal that is used for installations occurring between the latitudes shown above unless the customer and Alcoa specifically and in writing agree otherwise prior to Alcoa's sale of the product to a coater.
- Applications exposed to salt spray or within 2500 feet of the seacoast, must be maintained by washing with fresh tap water (in accordance with AAMA 610.1-1979) at least annually and documentation of this maintenance provided upon request (Copy of 610.1 provided on request). It is acknowledged that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements.
- Vertical installations are those measured at least 46° from horizontal



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METAL PAINT FINISH LIMITED WARRANTY

Warranty No:
Building Owner:
Building Identification:
Building Address:
Warranty Period Of:
Roofing Contractor:

FBPCO #

Square Footage:

s.f.

For the warranty period indicated above, Firestone Building Products Company ("Firestone"), a division of BFS Diversified Products, LLC, an Indiana limited liability company, warrants to the Purchaser that, subject to the Terms, Conditions and Limitations set forth below, the exterior paint finish ("Finish") on the UNA-CLAD brand coil-coated metal ("UNA-CLAD Metal") supplied by Firestone as part of the Firestone Project (FBPCO) Number listed above, will not exhibit the following exterior surface conditions, measured at the values listed below by Group: 1) Peeling, checking or cracking, except for crazing or cracking that may occur on formed edges or bends of the metal roofing panels and trim, 2) Chalking in excess of a numerical rating, Vertical and Non-Vertical, listed below, when measured in accordance with ASTM D 4214 "Standard Methods of Evaluating Degree of Chalking of Exterior Paints," for a term not to exceed thirty (30) years, or 3) Fade or change in color in excess of the Vertical rating listed below in color difference units, as measured on exposed surfaces which have been cleaned of external deposits and chalk and the corresponding values measured on the original or unexposed painted surfaces when tested in accordance with ASTM D 2244 3.7.1 and 3.8.4, "Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates," for a term not to exceed thirty (30) years.

TERMS, CONDITIONS AND LIMITATIONS

Group 1: Adhesion – 35 years, Chalk – 30 years at 8, Fade – 30 years at 5: Almond, Bone White, Cityscape, Colonial Red, Hartford Green, Hemlock Green, Mansard Brown, Medium Bronze, Patina Green, Regal Blue, Sandstone, Sherwood Green, Sierra Tan, Sky Blue, Slate Gray, Stone White, Terra Cotta, Tropical Patina, Champagne Metallic, Classic Copper, Silver Metallic

Group 2: Adhesion 35 years, Chalk – 30 years at 8, Fade – 30 years at 7: Charcoal Gray, Dark Bronze, Dark Ivy, Extra Dark Bronze, Teal

Group 3: Adhesion – 35 years, Chalk – 20 years at 8, Fade – 20 years at 9: Brandywine, Matte Black, Regal Red, Electric Blue, Award Blue

- Product Usage.** This Metal Paint Finish Limited Warranty (the "Limited Warranty") is limited exclusively to metal roofing panels and trim fabricated from UNA-CLAD Metal and installed in accordance with Firestone technical specifications.
- Notice.** In the event any peeling, checking, cracking, chalking, fading or excessive color change are observed by the Purchaser, the Purchaser must give notice in writing or by telephone to Firestone within thirty (30) days of any such observation. Written notice may be sent to Firestone at the street address or fax number shown on the reverse side of this Limited Warranty. By so notifying Firestone, the Purchaser authorizes Firestone or its designee to investigate the surface condition of the UNA-CLAD Metal.
- Investigation and Remedy.** If upon investigation, Firestone determines that the surface condition of the UNA-CLAD Metal is not excluded under the Terms, Conditions and Limitations set forth in this Limited Warranty, the Purchaser's sole and exclusive remedy and Firestone's total liability shall be limited to the refinishing of the UNA-CLAD Metal as determined by Firestone to require refinishing. Any and all refinishing work so performed by Firestone in compliance with this warranty shall be performed by using any standard finishing practices and materials. If the investigation reveals that the surface condition of the UNA-CLAD Metal is excluded under the Terms, Conditions and Limitations, the Owner shall be responsible for payment of the investigation costs. Failure by Purchaser to pay for these costs shall render this Limited Warranty null and void.
- Disputes.** Any dispute, controversy or claim between the Purchaser and Firestone concerning this Limited Warranty shall be settled by mediation. In the event that the Purchaser and Firestone do not resolve the dispute, controversy or claim in mediation, the Purchaser and Firestone agree that neither party will commence or prosecute any suit, proceeding, or claim other than in the courts of Hamilton County in the state of Indiana or the U.S. District Circuit, Southern District of Indiana, Indianapolis Division. Each party irrevocably consents to the jurisdiction and venue of the above-identified courts.
- Paint Finish Colors.** This warranty shall extend only to standard colors identified as such in Firestone published literature at the date of issuance of this Limited Warranty or as approved in writing by Firestone. Colors identified as "metallic" by Firestone are not warranted against fade or change in color.
- Payment Required.** Firestone shall have no obligation under this Limited Warranty unless and until Firestone has been paid in full for all materials, supplies, services, approved written change orders, warranty costs and other costs which are included in or incidental to the fabrication and installation of the UNA-CLAD Metal.
- Exclusions.** Firestone shall have no obligation under this Limited Warranty, or any other liability, now or in the future if peeling, checking, cracking, chalking, fading or excessive color change of the UNA-CLAD Metal is caused by: (a) Natural forces, disasters, or acts of God including, but not limited to wind, hurricanes, tornadoes, hail, wind-blown debris, lightning, earthquakes, volcanic activity, atomic radiation, insects or animals; (b) Any act(s), conduct or omission(s) by any person, or act(s) of war, terrorism or vandalism, which damage the UNA-CLAD Metal; (c) Failure by the Purchaser to use reasonable care in maintaining the UNA-CLAD Metal, said maintenance to include, but not limited to those items listed in the "Firestone / UNA-CLAD Paint Finish Cleaning and Maintenance Guide" on the reverse side of this Limited Warranty; (d) Deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, etc.; (e) Condensation or moisture infiltration in, through, or around the walls, copings, rooftop, hardware or equipment, building structure or underlying or surrounding materials; (f) Any acid, oil, harmful chemical, chemical or physical reaction and the like which comes in contact with the UNA-CLAD Metal, including but not limited to chemical fumes, salt water spray or any installation within 1500 feet of a saltwater environment, surface temperatures that exceed 200 degrees Fahrenheit, airborne sand abrasion, metal shavings, standing water or the continuous spray of water; (h) Alterations or repairs to the metal roofing panels and trim not approved in writing by Firestone; (i) Any failure caused by the attachment or mounting of any item or device to or near the metal roofing panels and trim, or by improper handling during fabrication and installation, including but not limited to, improper equipment fabrication, storage, transportation, erection, placement or failure to immediately remove strippable protective film coatings; (j) Failure to give proper notice as set forth in paragraph 1(a) above; (k) any punched or vented steel.
- Transfer.** This Limited Warranty shall be transferable subject to Firestone's inspection and written approval, and to Purchaser's payment of the current transfer fee set by Firestone.
- Term.** The term of this Limited Warranty shall be for the period set forth above and such term shall not be extended under any circumstances.
- Access.** During the term of this Limited Warranty, Firestone's designated representative or employees shall have free access to the UNA-CLAD Metal during regular business hours. In the event that access is limited due to security or other restrictions, Purchaser shall reimburse Firestone for all reasonable cost incurred during inspection and/or refinishing of the UNA-CLAD Metal that are due to delays associated with said restrictions. Owner shall be responsible for the removal and replacement of any overburdens, superstrata or overlays, either permanent or temporary, as necessary to expose the UNA-CLAD Metal for inspection and/or refinishing.
- Waiver.** Firestone's failure to enforce any of the terms or conditions stated herein shall not be construed as a waiver of such provision or of any other terms and conditions of this Limited Warranty.
- Governing Law.** This Limited Warranty shall be governed by and construed in accordance with the laws of the State of Indiana without regard to that State's rules on conflict of laws.
- Severability.** If any portion of this Limited Warranty is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions shall nevertheless continue in full force.

FIRESTONE DOES NOT WARRANT PRODUCTS INCORPORATED OR UTILIZED IN THIS INSTALLATION THAT WERE NOT FURNISHED BY FIRESTONE. FIRESTONE SPECIFICALLY DISCLAIMS LIABILITY UNDER ANY THEORY OF LAW ARISING OUT OF THE INSTALLATION OF, PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY FIRESTONE.

THIS LIMITED WARRANTY SUPERSEDES AND IS IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND FIRESTONE HEREBY DISCLAIMS ALL SUCH WARRANTIES. THIS LIMITED WARRANTY SHALL BE THE OWNER'S SOLE AND EXCLUSIVE REMEDY AGAINST FIRESTONE, AND FIRESTONE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGES TO THE BUILDING OR ITS CONTENTS OR THE ROOF DECK. THIS LIMITED WARRANTY CANNOT BE AMENDED, ALTERED OR MODIFIED IN ANY WAY EXCEPT IN WRITING SIGNED BY AN AUTHORIZED OFFICER OF FIRESTONE. NO OTHER PERSON HAS ANY AUTHORITY TO BIND FIRESTONE WITH ANY REPRESENTATION OR WARRANTY WHETHER ORAL OR WRITTEN.

FIRESTONE BUILDING PRODUCTS COMPANY, LLC

By:

Authorized

Signature: _____

Title:



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FIRESTONE / UNA-CLAD PAINT FINISH CLEANING AND MAINTENANCE GUIDE

Although UNA-CLAD factory-applied finishes are extremely durable, a periodic cleaning to remove build-ups of resins and other residue is a good idea to extend coating life. A variety of methods for removal of surface deposits are available. Simple washing with plain water using hoses or pressure spray equipment is usually adequate. When heavy deposits of dirt or other contaminants dull surfaces, stronger methods may be needed.

Two precautions should be observed: (1) do not use wire brushes, abrasives, or similar cleaning tools which will mechanically abrade the coatings surface, and (2) certain cleaning agents listed below should be tested in an inconspicuous area before use on a large scale.

GROUP A: HOT OR COLD DETERGENT SOLUTIONS

A 5% solution in water of commonly used commercial and industrial detergents will not have any deleterious effect on a fluoropolymer surface. These solutions should be followed by an adequate rinse of water. Use a cloth or sponge for application.

GROUP B: SOLVENTS

Most organic solvents are flammable and/or toxic, and must be handled accordingly. Read the manufacturer's Material Safety Data Sheets (MSDS). Keep away from open flames, sparks and electrical motors. Use adequate ventilation, protective clothing, and goggles. Solvent that may be used to remove non-water soluble deposits such as tar, grease, oil, paint, and graffiti from fluoropolymer surfaces include:

- Ethanol(denatured alcohol)
- Isopropyl alcohol (rubbing alcohol)
- Methanol (wood alcohol) Note: methanol is toxic

The above alcohols have no permanent effect on fluoropolymer surfaces.

GROUP C: PETROLEUM SOLVENTS AND TURPENTINE

- VM&P naphtha
- Mineral spirits
- Kerosene
- Turpentine (wood or gum spirits)

The above solvents have no permanent effect on fluoropolymer surfaces.

GROUP D: AROMATIC AND CHLORINATED SOLVENTS

- Xylol (Xylene) Toluol (Toluene)
- Perchlorethylene (Perclene)
- Trichlorethylene (Triclene)

Note: Perchlorethylene and Trichlorethylene are toxic.

The above solvents should be used with caution on a fluoropolymer surface. Limit contact with solvent to five minutes maximum and test before using.

GROUP E: KETONES, ESTERS, LACQUER THINNER AND PAINT REMOVER

- Methyl isobutyl ketone (MIBK)
- Ethyl acetate (nail polish remover)
- Butyl acetate
- Lacquer thinner
- Paint remover (non-flammable)

The above solvents should be used cautiously on a fluoropolymer surface. Limit contact to fluoropolymer surface and test before using. Note: There are many formulations of paint remover on the market. It is possible that some will remove the fluoropolymer surface. Proceed very cautiously in use of paint remover. Metal supplier and coating manufacturer are not responsible for damage from unrestricted use.

GRAFFITI

Graffiti presents a special problem because of the many possible agents used, especially aerosol paint. It is best to try soap and water first. If needed, try the less active solvents from Groups B, C, and D. Next, try the stronger solvents in Group E. If none of these are satisfactory, it may be necessary to resort to touchup, repaint or replacement.

MILDEW

In areas subject to high humidity levels, dirt and spore deposits can permit mildew growth to occur. The following solution is recommended to remove mildew when necessary:

- 1/3 cup dry powdered laundry detergent (such as Tide®)
- 1 quart sodium hypochlorite 5% solution (such as Clorox®)
- 3 quarts water

RUST STAINS

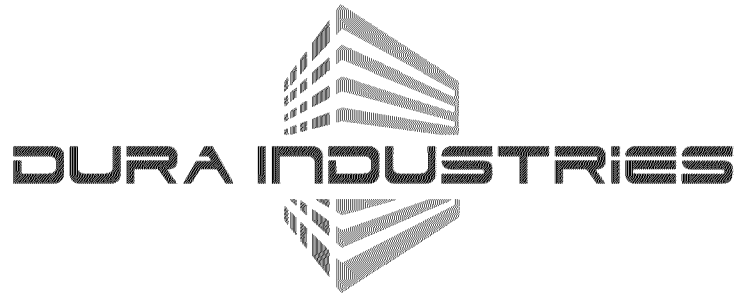
Hydrochloric, citric acid, or muriatic acid, diluted with ten volumes of water, may assist in removing rust stains from fluoropolymer surfaces. Limit contact to five minutes. Oxalic acid solutions or acetic acid (vinegar) may be used for the same purpose. Flush with water. Caution: Acid solutions are corrosive and toxic. Flush all surfaces with copious amounts of water after use.

NOTE: Misuse or abuse of any of the cleaning agents listed above may result in the voiding of the Firestone Metal Paint Finish Limited Warranty. For more information contact Firestone Roofing Solutions at 1-800-428-4511.



250 West 96th Street | Indianapolis, IN 46260
1-800-428-4442 | 1-317-575-7000 | FAX 1-317-575-7100
www.firestonebpco.com

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SAMPLE WARRANTY ONLY

30 YEAR DURANAR LIMITED WARRANTY

Dura Industries makes the following Limited Warranty to Ramsay Signs & Heath Northwest for Project: Mall of America, Bloomington MN concerning the use of PPG Duranar green XL.

Thank you for purchasing our Duranar family of spray coatings for mill finish aluminum. We are pleased to present you with PPG's thirty (30) year Duranar Limited Warranty and Dura Industries thirty (30) year paint application Limited Warranty.

The warranty period for each of these Limited Warranties starts on the date of substantial completion, effective date April, 2016, but the effective date should not be later than 6 months from Dura Industries delivery date. Customer is responsible for notifying Dura Industries of the date of substantial completion. Should Customer fail to notify Dura Industries, the Effective Date, for purposes of this Limited Warranty, will be Dura Industries delivery date.

PPG warrants that for thirty (30) years after the Effective Date, the factory applied finish supplied by PPG and applied by Dura Industries:

- a) Will not chip, crack or peel (lose adhesion) but this does not include minute fracturing which may occur in proper fabrication of building parts. Failure due to substrate corrosion is excluded.
- b) Will not chalk in excess of ASTM D-4214-89 number eight (8) rating, determined by the procedure outlines in ASTM D-4214-89 specification test.
- c) Will not change color more than five (5) Delta-E Hunter units (square root of the sum of square Delta L, Delta a, and Delta b) as determined by ASTM method D-2244-93 method 6.3. It is acknowledged by Customer that fading or color changes may not be uniform if the surfaces are not equally exposed to the sun and elements. Color change shall be measured on an exposed painted surface that has been cleaned of surface soils and chalk, and the corresponding values measured on the original or unexposed surface.

In this Limited Warranty metallics are exempt in this warranty from item C but will hold the L value within 5 Delta E or the L scale of the Hunter E unit system.

Exotic colors will receive a full thirty (30) year warranty if they have the PPG recommended clear coat applied.

For the first ten (10) years after the Effective Date, Dura Industries Limited Warranty will apply where the failure is caused by the misapplication of the PPG products (that is in situations where the coating was not applied in accordance with AAMA 2605, ASTM D 1730, Type B, Method 5 or ASTM B 449 Section 5).

If you believe that the Duranar products you purchased fail to comply with either PPG's or Dura Industries Limited Warranty, the company whose Limited Warranty has been breached in that company's opinion will pay for labor and material for repainting, or repairing the part showing the failure. In the event that both PPG and Dura Industries Limited Warranties are breached in their opinions the companies will be jointly responsible for performing corrective work. But in either case, you must notify Dura Industries of the alleged failure in writing within thirty (30) days after your discovery of the alleged defect, otherwise the warranty is void as to

that claim. Upon receipt of your written notice of claim, Dura Industries will determine the exact cause of the failure using ASTM, AAMA and NCCA testing procedures as specifically as possible. Your cooperation and assistance will be necessary to make these determinations. Should Dura Industries determine, at its sole discretion, that the Duranar products failed and that the terms of this Limited Warranty apply, Dura Industries will repair, or replace the part, at its sole discretion. If Dura Industries repaints, it will use standard painting practices, but will not necessarily use PPG products. Dura Industries reserves the right to approve any contract between customer and any third party for the purpose of correcting the defective product. This Limited Warranty only applies to the part refinished, repaired, reclad, or replaced for the unexpired portion of the Warranty period.

Neither PPG's nor Dura Industries Limited Warranty applies when the failure is caused by things that we don't control. Such intervening events or circumstances include, but are not limited to the following:

- Acts of nature;
- Fire, floods or other casualty or physical damage;
- Government restrictions;
- Acts of aggression or terrorism by any person or entity;
- Harmful fumes or foreign substances in the environment;
- Improper storage or packaging of the part or product before installation (e.g. water damage due to condensation);
- Product failure due to improper usage and/or application;
- Failure to provide reasonable routine and documented maintenance, and/or improper maintenance, including, but not limited to, use of chemical cleaning agents not in accordance with AAMA recommendations or failure to use a systematic maintenance cleaning program in areas of high salt concentration;
- Corrosive or aggressive atmospheres including direct salt spray;
- Corrosive atmosphere found in the interior of buildings, which affect the interior surface of material;
- Standing or ponding water on the metal;
- Excessive building movements;
- Work performed or materials supplied by others;
- Post forming or welding of parts; Improper treatment of finished material, such as scratching or abrading during fabrication or installation, or fabrication at temperatures below 60° F;
- Defects in the metal or in the fabrication (e.g. die lines, pitting, travel marks, etc.);
- Previously painted material unless it has been approved by Dura Industries;
- Corrosion of the metal substrate;
- Finish deterioration originating from unpainted or exposed metal, such as unfinished saw cuts, unfinished joinery edges, punches, weep holes, or drill holes; Incompatibility between materials, including, but not limited to, galvanic corrosion due to contact with adjacent dissimilar metals such as stainless steel, etc;
- Damage to the painted metal occasioned by moisture or other contamination detrimental to the finish because of improper storage of the finished metal prior to installation as outlined in AAMA Publication 10, "Care and Handling of Architectural Aluminum From Shop to Site."

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The legal remedies described in this Limited Warranty are the sole exclusive remedy of Customer. This Limited Warranty shall be void if payment from Customer is not received within the period listed in Dura Industries invoice period or in the absence of a specific time period within a commercially reasonable time frame.

DURA INDUSTRIES MAKES NO OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING ITS PRODUCTS, OR ITS SELECTION AND APPLICATION, INCLUDING, BUT NOT LIMITED TO, COMPLIANCE WITH BUILDING CODES, SAFETY CODES, LAWS, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Total liability for Dura Industries under this Limited Warranty for any reason or origin is limited in total to the original purchase price for finishing the part(s). This Limited Warranty is extended solely to the Customer. It is nontransferable and non-assignable, and the Customer shall not permit or authorize its employees, agents, representatives or customers to claim, represent or imply that this Limited Warranty extends or is available to anyone other than the Customer.

In the event of a material breach by the Customer of any of the conditions of this Limited Warranty, Dura Industries shall have no liability for any Product failure claims.

Failure to pay Dura Industries in full for original finishing services will automatically make this Limited Warranty null and void.

Dura Industries will not be liable for indirect, incidental or consequential damages of any kind. The limited warranty of any products replaced or repaired under this Limited Warranty shall be limited to the remainder of the original warranty period. Dura Industries reserves the right to reasonable field access to diagnose and repair any product alleged to be defective. This Limited Warranty may not be modified by anyone and it may not be changed by provisions or statements in any documents, included but not limited to your purchase order forms or our acceptance forms, unless such changes are made in writing and signed by the President or the Operations Manager of Dura Industries.

This Limited Warranty is provided in lieu of any other warranty requirements or obligations, including those of Project Specifications or Non-Dura Industries General Conditions or documents.

All notices given and claims made under or pursuant to this Limited Warranty shall be in writing and sent by certified or registered mail, postage prepaid, return receipt requested to: Dura Industries, attn: Del Stephens, PO Box 10762, Portland Oregon 97296 and PPG Industries, Attn: Manager, Color Services, Industrial Finishes Group, 151 Colfax Street, Springdale PA 15144.

By proceeding to use our products and services on your Project, you accept the terms of these Limited Warranties.

SAMPLE WARRANTY



Del Stephens, President

Date: 04-04-16

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