



OWNER'S MAINTENANCE MANUAL

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Introduction

Thank you for your purchase of Metl-Span insulated metal panels. Our panels are designed to be a low maintenance, high performing, and durable cladding system. To keep them in optimum condition and to ensure compliance with warranty requirements, please take a moment to read this maintenance manual. Should you have any questions, please contact Customer Relations at the address listed below.

Chapter 1 – General Care

Visual Inspection – Twice a year, make a complete visual inspection of the panels and look for any changes in appearance including:

Paint finish - discoloration, fade, peeling, flaking or staining

Panels - creases, bulges, or bumps

Any irregularities observed during the panel warranty period should be reported immediately to Customer Relations.

Foliage - Contact with wall panels can produce scratches in the paint surface. Keep bushes and trees trimmed back from panel surfaces.

Landscape Beds - Do not allow landscape bed materials like soil, mulch, rocks, etc. to come in contact with panels or trims. Panel corrosion will occur due to continuously moist/wet conditions. This condition also blocks designed panel drainage at the base of walls.

Loose Trim – Loose trim should be reattached to the building using stitch fasteners or pop rivets as required. Replacement fasteners should be of the same type and finish and are available from Customer Relations.

Damaged Trim – Trim at wall openings (such as overhead doors etc.) can be damaged by vehicle traffic etc. Replacement trim can be obtained by contacting Customer Relations.

Sealants – Inspect exposed sealants for damage and repair/replace as required – contact Customer Relations for color matched sealants.

Weep Holes – Aluminum extrusions located at the top of window/door openings or at the bottom of walls likely contain weep holes that should be checked annually to make sure they remain open.

This is necessary to make sure water properly drains out of the panel assembly.

Avoid contact with other materials

- Do not allow stored materials to come in contact with panels.
- Do not allow panels to come in contact with wood, lead or copper, or runoff from any of these materials as they may stain the panels and damage the paint finish.
- Do not allow air conditioning condensation water to drain onto panels.
- Do not allow concrete or mortar splatter to contact panels, as this will be extremely difficult to remove without damaging the paint finish.

Chapter 2 – Cleaning

NOTE: the cleaning instructions in this chapter apply to standard paint finishes only. Contact Customer Relations for specific instructions on cleaning Tuff Wall® or Tuff-Cast™ panels.

Routine Washing – Roofing and siding should be washed with soap and water as necessary to maintain appearance. Carwash soap or a 5% solution of mild laundry detergent (such as Tide) works well for general cleaning. Use a cloth, sponge, or a soft bristle brush for application. Cleaning should be done in the shade or on a mild cloudy day to minimize streaking. *Always rinse thoroughly with water.*

Do not use wire brushes, steel wool, sandpaper, abrasives, or similar cleaning tools which can mechanically abrade the paint surface.

Be sure to remove all dirt, debris, and metal filings from panels. Debris traps moisture against the metal causing premature corrosion. Metal filings oxidize, causing unsightly rust stains and damaging the panel finish as well the metal facings.

Sealant Removal (butyl, urethane) – Excess sealant should be removed with a solvent such as WD-40, denatured alcohol, or mineral spirits. *Caution: test solvents on a small, inconspicuous area first. Apply solvent to a clean cotton rag – and only wipe the areas of excess sealant. Do not allow solvent to soak into panel joints or flashing areas as this may damage the sealant and associated weather seals.*

Rust - Panels should be inspected for rust once a year. If rust or rust stains are found, determine the source, such as steel filings from drilled holes and remove them. Rust stains are typically removed using one of the following methods: soap and water, Soft Scrub®, Rid O' Rust® or a mild automotive polishing compound. Careful not to use pressure or film spread may happen.

Concrete/mortar splatter - must be washed off immediately with a high-pressure wash and mild detergent. *Warning - scrubbing the panels while mortar is present will likely result in scratches to the paint finish!*

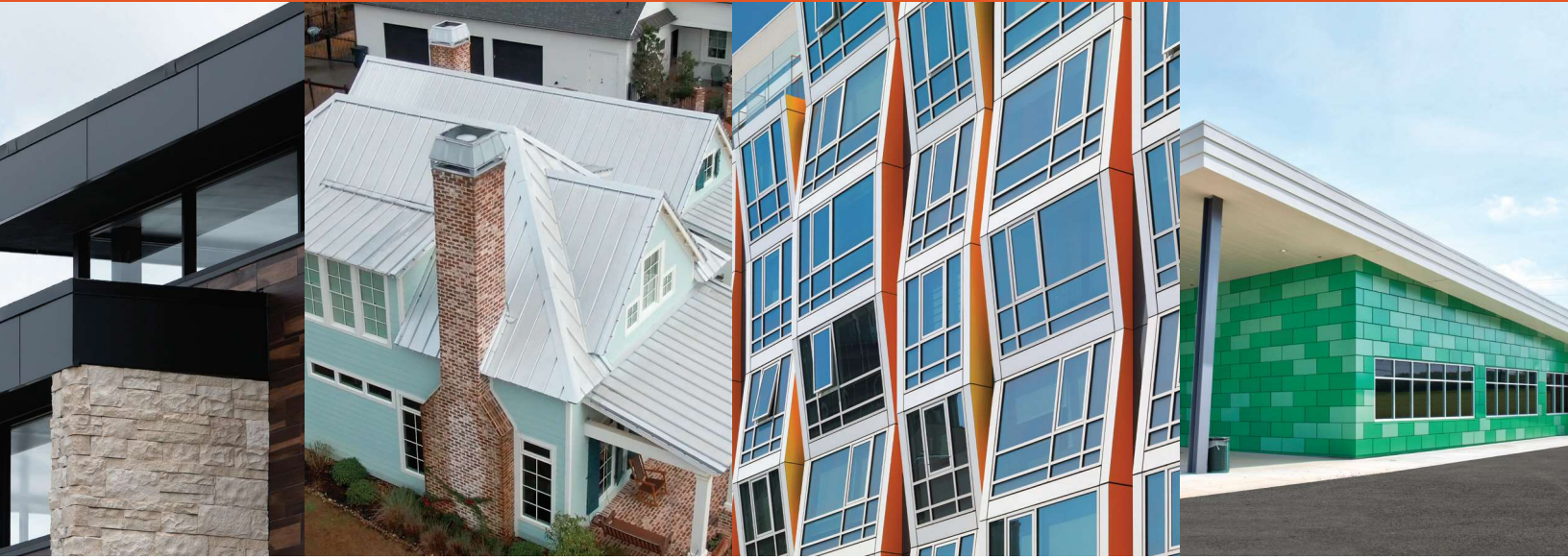
Graffiti Removal:

Graffiti presents a special problem because of the many possible agents used, generally aerosol paints. Sherwin Williams has approved Watts Removal Products solutions as their approved graffiti removal product. See Page 4 for additional information.

Depending on the nature of the graffiti paint, as well as the amount of time the graffiti has remained on the panels, removal may be unsuccessful. For these situations, repainting, overlays, or replacement of the affected panels may be required.

Reference chart for Metl-Span paint systems:

Metl-Span Color Group	Type	Valspar Brand Name	Guide
Standard I, II	PVDF	Fluropon®	Fluoropolymer Coatings
Premium I, II, III	PVDF	Fluropon® Fluropon® Classic Fluropon® Classic II	Fluoropolymer Coatings
Standard SP	Siliconized Polyester	-	Silicone Polyester Coatings
Standard SP	Siliconized Polyester	-	Silicone Polyester Coatings
Polyester	Polyester	-	Polyester Coatings
Tuff Coat®, Cast Cote®	-	N/A	See Tuff Coat® cleaning guide



FINDING INNOVATIVE WAYS TO SUPPORT OUR CUSTOMERS

The Sherwin-Williams Coil Coatings approach to products and customer relationships extends way beyond the initial sale. We're focused on innovation long after our products have been installed and the project is complete.

One example of this commitment is our leadership for maintenance and cleaning innovations. Our exclusive partnership with Watts Removal Products ensures roofing and siding contractors, property owners and maintenance professionals have access to products designed to help revitalize and restore metal wall, roofing panels, manufactured products, extrusions and so much more. This is first of its kind alignment in the industry, and is a key advantage of working with Sherwin-Williams.



ALL YOU NEED

Working cooperatively, Watts Removal has developed the Metal Maintenance Sample Kit (pictured above). It's a bundle of products that includes everything you'll need for maintaining the surfaces of Sherwin-Williams coil and extrusion coated metal building products.

The kit includes:

- Sensitive Surface Remover
- Cleansweep
- Safewipes
- Microfiber cloth
- Brush
- Bucket
- Safety goggles
- Gloves



SHERWIN-WILLIAMS
Coil Coatings



wattsremoval.com
products@wattsremoval.com
coil.sherwin.com/cleaning



AFTER THE FACT

Over time, the real world can adversely affect how your finished project looks. Some of the issues we address include:

- OXIDATION & CHALKING
- REMOVAL OF STRIPPABLE FILM
- GRAFFITI
- OVER-SPRAYED PAINT & ADHESIVES
- PAINT SPILLS
- SURFACE RUST STAINS
- TIGER-STRIPING
- DIRT
- SMOG
- MILDEW & OTHER BIOLOGICAL GROWTH
- SMOKE DAMAGE
- EXHAUST STAINING

EASY TO USE & EFFECTIVE

Watts Removal products are effective, easy-to-use and formulated to be environmentally friendly. They are equally effective on all Sherwin-Williams coil and extrusion coated metal building products, regardless of age.

HERE TO HELP

Durability and industry-leading innovation are things you've come to expect from Sherwin-Williams Coil Coatings; you can rest assured in the fact that your investment and trust in the metal coatings we offer is always supported by our long-term commitment to you.

For more information about the Watts Removal Metal Maintenance Sample Kit or other removal products, please visit wattsremoval.com.



CLEANING AND MAINTENANCE GUIDE OF SHERWIN-WILLIAMS FLUOROPOLYMER COATINGS

The molecules on the surface of Sherwin-Williams Coil Coatings fluoropolymer coating systems are so tightly bound together that it makes them resistant to many elements found in the environment such as air pollution, acid rain and general airborne dirt.

Although Sherwin-Williams Coil Coatings 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.

PRECAUTIONS

1. **Proper Equipment:** Do not use wire brushes, abrasives or similar cleaning tools which will mechanically abrade the coatings surface.
2. **Test:** Always test the cleaning agents listed below in an inconspicuous area before use on a large scale.
3. **Disposal:** Please make sure you dispose of cleaning solutions in an environmentally manner.

GROUP A: HOT OR COLD DETERGENT SOLUTIONS

A 5% solution in water of commonly used commercial (non-industrial detergents) will not have any deleterious effect on a paint surface. These solutions should be followed by an adequate rinse of water. Use a cloth or a soft brush for application.

WATTS REMOVAL PRODUCTS

Watts Removal solutions are environmentally friendly, non-toxic and water soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from Watts Removal Products. To purchase approved product contact them at wattsremoval.com.

GROUP B: SOLVENTS

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

- Isopropyl (rubbing alcohol)

GROUP C: PETROLEUM SOLVENTS AND TURPENTINE

(no permanent effect on surfaces)

- VM&P naphtha
- Mineral spirits

CHEMICAL SOLUTIONS

Mildew: In areas subjected 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 (ex. Tide™)
- 1 qt sodium hypochlorite 5% solution (ex. Clorox™)
- 3 qts water

Rust Stains: Hydrochloric, citric 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.

GRAFFITI

Graffiti presents a special problem because of the many possible agents used, generally aerosol paints. Sherwin-Williams has approved Watts Removal Products solutions as our approved graffiti removal product. Watts Removal solutions are environmentally friendly, non-toxic and water soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from GRS. To purchase approved product contact them at wattsremoval.com.

WARRANTY

Misuse or abuse of any of the cleaning agents listed above will result in a voiding of warranty for the surface affected.

FLUOROPOLYMER COATINGS

- Fluropon® Family
- Flurothane® Family
- Flurospar® Family
- Valflon®

AT YOUR SERVICE

Do you have a unique application? We'll work with you to find a solution. Want a unique color? We'll create it for you. Need a quick turnaround? Talk to us, and we'll help you get your project completed on time. We're here to help. In fact, with our availability at coating and service centers throughout the country, we're there for you. Give us a call and see how we can help with your next project.

COIL:

(888) 306-2645 or coilhelp@sherwin.com

EXTRUSION:

(866) 351-6900 or extrusionhelp@sherwin.com

Fluropon®, Flurothane®, Flurospar and Valflon® are registered trademarks of The Sherwin-Williams Corporation. © 2018 Sherwin-Williams All Rights Reserved.



CLEANING AND MAINTENANCE GUIDE OF SHERWIN-WILLIAMS SILICONE MODIFIED POLYESTER COATINGS

Silicone modified polyester coatings are resistant to many elements found in the environment such as air pollution, acid rain, and general airborne dirt. However, if the need to clean or remove deposits from your coating does arise, a variety of methods for removal of surface deposits are available.

PRECAUTIONS

1. **Proper Equipment:** Do not use wire brushes, abrasives or similar cleaning tools which will mechanically abrade the coatings surface.
2. **Test:** Always test the cleaning agents listed below in an inconspicuous area before use on a large scale.
3. **Disposal:** Please make sure you dispose of cleaning solutions in an environmentally manner.

GROUP A: HOT OR COLD DETERGENT SOLUTIONS

A 5% solution in water of commonly used commercial (non-industrial detergents) will not have any deleterious effect on a paint surface. These solutions should be followed by an adequate rinse of water. Use a cloth or a soft brush for application.

WATTS REMOVAL PRODUCTS

Watts Removal solutions are environmentally friendly, non-toxic and water soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from Watts Removal Products. To purchase approved product contact them at wattsremoval.com.

GROUP B: SOLVENTS

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

- Isopropyl (rubbing alcohol)

CHEMICAL SOLUTIONS

Mildew: In areas subjected 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 (ex. Tide™)
- 1 qt sodium hypochlorite 5% solution (ex. Clorox™)
- 3 qts water

Rust Stains: Hydrochloric, citric 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.

GRAFFITI

Graffiti presents a special problem because of the many possible agents used, generally aerosol paints. Sherwin-Williams has approved Watts Removal Products solutions as our approved graffiti removal product. Watts Removal solutions are environmentally friendly, non-toxic and water

soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from Watts Removal Products. To purchase approved product contact them at wattsremoval.com.

WARRANTY

Misuse or abuse of any of the cleaning agents listed above will result in a voiding of warranty for the surface affected.

SILICONE MODIFIED POLYESTER COATINGS

- WeatherXL™
- WeatherX®
- Coil Clad 10S

AT YOUR SERVICE

Do you have a unique application? We'll work with you to find a solution. Want a unique color? We'll create it for you. Need a quick turnaround? Talk to us, and we'll help you get your project completed on time. We're here to help. In fact, with our availability at coating and service centers throughout the country, we're there for you. Give us a call and see how we can help with your next project.

COIL:

(888) 306-2645 or coilhelp@sherwin.com

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CLEANING AND MAINTENANCE GUIDE OF SHERWIN-WILLIAMS POLYESTER COATINGS

Polyester coatings are resistant to many elements found in the environment such as air pollution, acid rain, and general airborne dirt. However, if the need to clean or remove deposits from your coating does arise, a variety of methods for removal of surface deposits are available.

PRECAUTIONS

1. **Proper Equipment:** Do not use wire brushes, abrasives or similar cleaning tools which will mechanically abrade the coatings surface.
2. **Test:** Always test the cleaning agents listed below in an inconspicuous area before use on a large scale.
3. **Disposal:** Please make sure you dispose of cleaning solutions in an environmentally manner.

GROUP A: HOT OR COLD DETERGENT SOLUTIONS

A 5% solution in water of commonly used commercial (non-industrial detergents) will not have any deleterious effect on a paint surface. These solutions should be followed by an adequate rinse of water. Use a cloth or a soft brush for application.

WATTS REMOVAL PRODUCTS

Watts Removal solutions are environmentally friendly, non-toxic and water soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from Watts Removal Products. To purchase approved product contact them at wattsremoval.com.

GROUP B: SOLVENTS

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

- Isopropyl (rubbing alcohol)

CHEMICAL SOLUTIONS

Mildew: In areas subjected 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 (ex. Tide™)
- 1 qt sodium hypochlorite 5% solution (ex. Clorox™)
- 3 qts water

Rust Stains: Hydrochloric, citric 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.

GRAFFITI

Graffiti presents a special problem because of the many possible agents used, generally aerosol paints. Sherwin-Williams has approved Watts Removal Products solutions as our approved graffiti removal product. Watts Removal solutions are environmentally friendly, non-toxic and water

soluble. Easy application process, use a soft brush to apply and wet cloth to remove. Use only Sherwin-Williams approved products from GRS. To purchase approved product contact them at wattsremoval.com.

WARRANTY

Misuse or abuse of any of the cleaning agents listed above will result in a voiding of warranty for the surface affected.

POLYESTER COATINGS

- Polykote™ Family
- Poly lure® Family
- Alamo White™
- Super Dynapon®

AT YOUR SERVICE

Do you have a unique application? We'll work with you to find a solution. Want a unique color? We'll create it for you. Need a quick turnaround? Talk to us, and we'll help you get your project completed on time. We're here to help. In fact, with our availability at coating and service centers throughout the country, we're there for you. Give us a call and see how we can help with your next project.

COIL:

(888) 306-2645 or coilhelp@sherwin.com

EXTRUSION:

(866) 351-6900 or extrusionhelp@sherwin.com

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Chapter 3 – Roof Maintenance and Inspections

Safety Precautions

WALKING ON ANY ROOF IS DANGEROUS. ALWAYS USE FALL PROTECTION AND PERSONAL SAFETY EQUIPMENT REQUIRED BY OSHA AND OTHER REGULATORY AGENCIES. FAILURE TO FOLLOW THESE REGULATIONS CAN RESULT IN SERIOUS INJURY OR DEATH. YOU MAY ALSO BE SUBJECT TO SUBSTANTIAL FINES FOR NONCOMPLIANCE.

When performing roof maintenance or inspections, always remember the following:

- all maintenance personnel must be adequately trained in safety procedures
- verify safety equipment is in proper working order
- do not walk on roof flashings (gutter, rake, hip or ridge)
- do not walk on skylights or Light Transmitting Panels (LTPs)
- use extreme caution on steep slopes, near edges, where roof is wet or covered with ice/snow

Your new insulated metal panel roof is designed to provide years of protection with very little maintenance. However, no roof is immune to severe weather or completely maintenance free. To keep your roof performing as it should, a maintenance program should be implemented.

Annual Roof Check - check the joints in roof panels and associated trims for proper seals and loose fasteners. For repairs, contact the original installing contractor or Metl-Span for the names of qualified contractors in your area.

Gutter And Downspouts – Clear all debris (leaves, dirt, etc.) from gutters and downspouts as required. At the minimum, this cleaning should be done twice a year.

Check Drainage

Proper drainage is critical to roof performance:

- Keep roof free of debris and obstructions.
- Do not install anything on the roof that holds moisture or causes water to pond.
- Do not use wood to support rooftop equipment or pipes etc. Wood blocking impedes water flow and may contain salts or copper sulfate which deteriorate the roof and voids the warranty coverage. Instead use a proper metal roof clamping system, such as S-5! or similar.
- Do not allow water to cascade onto the roof from an adjacent roof. Use gutters and downspouts as necessary to properly channel water.
- Do not allow rooftop air conditioning units or evaporative coolers to drain onto the roof. Use PVC pipe to carry condensate to gutters.

Inspect your roof in the event of:

- **Fire, vandalism or known damage to an adjacent roof area**
- **Exposure to severe weather:**
 - o High winds: debris, loose panels/trims/fasteners/closures, and punctures
 - o Hailstorms: damaged trim and loose fasteners
 - o Heavy rains: ponding water at roof laps, roof curbs/penetrations, gutters and all trims
 - o Sliding snow/ice: perimeter trims, plumbing pipes/roof penetrations etc. - check for loose fasteners at trim and panel endlaps

Notify all other trades before allowing them on the roof panels that they must:

- Protect against foot traffic damage, roof scratches and dents by using appropriate roof covers in work areas.
- Make advance arrangements with roofing contractor to ensure that all penetrations are properly designed and installed.
- Remove all construction debris including metal shavings, sealants, wood scraps, fasteners etc.
- Protect roof with fire cloth wherever welding equipment or cutoff saws will be used.
- Clean up spilled chemicals/solvents on the roof immediately - thoroughly rinse affected areas with water.

Foot Traffic

Foot traffic must be properly managed to reduce damage to metal roof systems:

- Do not walk on trims, trim laps, ridge caps or gutters
- Avoid walking near skylights, roof curbs or other roof penetrations
- Keep off panel high ribs (walk on flat area of panels)
- Heavy foot traffic can damage paint finishes
- Install roof walkway systems for areas of regular foot traffic
- Minimize unnecessary traffic - limit access to roof, roof hatches and access ladders
- Post signs at access points - authorized personnel only allowed on roof.
- Keep a logbook of all visits to the roof and the reason for visits.

Ice and Snow Removal

Snow and ice in excess of building design loads should be removed from roof immediately to prevent damage. Pay attention to gutter areas (eaves and valleys), areas sheltered from the wind (behind facades, step roof conditions, etc.). Use extreme caution with removal and follow all roof safety procedures.

- Do not use metal tools to remove the ice or snow as this can damage the paint and/or Galvanized/Galvalume coatings.
- Do not disturb plumbing pipes and flashings.
- Be aware of skylights and light transmitting panels (LTPs). They are not designed to support a person's weight and are difficult to locate if covered with ice and snow.
- Remove snow at an equal rate from both sides of a gabled roof to avoid unbalanced loads.

Dissimilar Metals

Never allow your roof to come in contact with dissimilar metals or water runoff from dissimilar metals, including but not limited to copper, lead, or graphite. Failure to adhere to this requirement will cause roof damage including staining and galvanic corrosion and will void all warranties.

Common sources include:

- lead hats for plumbing vents
- copper lightning rods/cables, trims, gutters
- air conditioning and evaporative cooler condensate

Leak Repair Procedures:

Roof systems covered by a Metl-Span weathertight warranty: *No leak repairs should be attempted without prior written approval from Metl-Span (unauthorized repairs may result in warranty forfeiture).*

Additions/alterations to the roof during the weathertight warranty period including but not limited to roof curbs, pipe penetrations and HVAC units must be approved in writing by Metl-Span before work commences.

Roof systems NOT covered by a Metl-Span weathertight warranty: *Leak repairs should only be attempted by a Metl-Span qualified roofing contractor. Contact Customer Relations for a list of qualified contractors near you.*

Proper leak repairs usually involve partial dis-assembly and re-assembly of roofing components, replacement of damaged panels/trims, sealant remediation and/or flashing alterations. Applying surface caulk, elastomeric membranes, plastic roof cement etc. is usually not a long-term solution for leaks and can lead to further damage. *Under no circumstances should roofing tar or other similar compounds be used to repair metal roofs.*

Chapter 4 – Paint Finish Repairs

Minor Paint Scratches

For scratches without rust, clean the scratched area using a clean white rag dampened with the appropriate solvent indicated in **Chapter 2 Sherwin-Williams® Cleaning and Maintenance Guides**.

For scratches with rust, remove the rust per **Chapter 2 Sherwin-Williams® Cleaning and Maintenance Guides**.

Apply primer if scratches are deep (down to the bare metal) or if rust was present. Otherwise, no primer is necessary.

- Apply the touchup paint using an artist brush or similar.
- Use only Metl-Span supplied touch-up paint. Primer and color matched touch-up paint with brush applicator is available from Metl-Span Customer Relations.
- Additional information for repairing minor scratches with the Fluropon® paint system can be found in the Touch-Up documents contained in this guide.



EFFICIENTLY REPAIR AND RESTORE PRODUCTS WITH BRUSH-ON TOUCHUP PAINT

Metal building products are built to last but can also experience inevitable wear and tear. Ready Match Touchup brush-on paint is an ideal solution to help you repair small scratches and nicks to ensure your projects return to its original appearance. However, touchup paint needs to match the original coating exactly, or it will not efficiently touch up the area and may even highlight the issue. Follow the steps and procedures to ensure your brush-on touchup paint delivers the best performance for your products.

DIRECTIONS FOR USE

1. Make sure the surface is clean, dry and free of grease and oil. If needed, use a mild solvent like Naptha and a clean cloth to wipe down the surface. Note: Touchup should be used on small nicks and scratches only. It is not meant for large areas or deep gouges.
2. Always shake the bottle for at least one minute after the mixing ball begins to rattle. If the product is not adequately mixed, the color of the paint will not be correct. (Do not try to get all the residue off the bottom of the bottle). Make sure that the product is capped tightly before shaking.
3. Dip brush into the bottle as far as it will go.
4. Slowly remove the brush from the bottle. The brush wiper, which is mounted in the bottle opening, reduces the opening diameter and helps to wipe excess paint from the brush. This eliminates dripping paint from the brush after removing it from the bottle.
5. Brush paint on with smooth strokes. Use very slight pressure when touching the brush to the surface. Avoid retouching the wet paint film with the brush after it is applied. Do not retouch paint after paint has set up for more than 2 minutes.
6. When finished, recap the bottle.





EFFICIENTLY REPAIR AND RESTORE PRODUCTS WITH BRUSH-ON TOUCHUP PAINT

GETTING THE RIGHT COLOR

The right color and gloss is achieved by following the application instructions listed in this brochure and brushing to opacity. Opacity means that light can no longer penetrate the layers of the paint and reflect off the surface being covered. If you can see the original surface color or the color does not match, opacity has not been reached; apply a few more coats.

BOTTLE STORAGE

Always store bottles upright. Storing them any other way can cause pigments to settle in the neck of the bottle and cause blockage. Never store bottles where temperatures may exceed 120°F. Cold temperatures will not harm the paint, however always let the bottles warm to room temperature before using to avoid application and appearance problems. Note: It is advisable not to store bottles at either temperature extreme for prolonged periods of time.

DISPOSAL OF TOUCHUP BOTTLES

Ready Match plastic touchup bottles may be disposed of through your regular waste stream when empty (drip dry). However, if your bottles still contain liquid paint, you should contact your local recycling waste management center for waste disposal information in your area.

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Color Doesn't Match	The bottle was not shaken enough.	The pigments inside the bottle must be thoroughly mixed to achieve the proper color and gloss.
	Your production coating may have changed.	It is possible that your original coating has shifted in color. If this situation occurs, submit a new color standard for color matching.
Color Appears Flat or Hazy	Humid conditions may exist.	Apply under less humid conditions.
	The surface you are touching up may be too hot.	Remove the object from direct sunlight or heat; allow surface to cool and continue.
Surface Appears Streaky	The thickness of the paint film is uneven.	Apply an additional coat of paint and try to get it as smooth and uniform as possible.
Can't Achieve Proper Gloss	The paint is not glossy enough.	Apply a few more coats of paint.
	The paint is too glossy.	Apply a thinner film.
Paint Appears Saggy or Has Runs	Too much paint was applied.	Apply lighter coats of paint.
	The temperature of the paint or substrate may be too low.	Allow paint and substrate to warm to room temperature.
Metallic* Colors Don't Match	Metallic color is too dark.	Apply very thin coats and allow the paint to set up between each coat. This will cause the flakes to lay flat. Practice on a piece of scrap before touching up the part. There is no substitute for experience.
	Metallic color is too light.	Apply thick coats. This will cause the flakes to lay on their edges. Practice on a piece of scrap before touching up the part. There is no substitute for experience.

*When applying a metallic color, you are actually applying tiny flakes of metal. These flakes reflect light. How the flakes lay in the paint film will determine how much light they reflect. If the flakes lay flat against the surface of the film, they will reflect the most light. If the flakes lay edgewise facing the surface of the film, they will reflect the least amount of light. The more light the flakes reflect, the lighter the paint will appear.

**coil.sherwin.com/touchup or call 262-622-2390
rick.a.white@sherwin.com**



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Chapter 4 – Paint Finish Repairs (continued)

NOTE: Metl-Span panels are provided with factory warranted paint systems on the exterior face (interior face is not covered under paint warranty). Please contact Metl-Span Customer Relations for all claims regarding paint finish within the warranty period.

Under no circumstances should re-painting be attempted without the prior written approval of Metl-Span. Failure to do so will result in immediate cancellation of the factory paint system warranty.

The following section contains re-painting instructions for non-warranted repairs only (panels no longer within the warranty period or damage not covered under the factory warranty). These repairs methods may only be used for the following paint systems:

Metl-Span Color Group	Type	Valspar Brand Name
Standard I, II	PVDF	Fluropon®
Premium I, II, III	PVDF	Fluropon® Fluropon® Classic Fluropon® Classic II
Standard SP	Siliconized Polyester	-
Premium SP	Siliconized Polyester	-
Polyester	Polyester	-

Larger Areas Requiring Repainting - For larger repairs that require re-painting, use the procedures outlined below for each type of paint system. Field painting of the pre-painted surfaces on our panels should be attempted only by a skilled professional using the systems and methods outlined below. It is the responsibility of the painting contractor to follow all safety procedures, verify compliance with environmental regulations and guard against overspray on buildings and vehicles. **Metl-Span is providing this information as a customer service only and assumes no responsibility for the repairs.**

No warranty for area re-painted.

Note: Color changes may not be uniform on surfaces that are not equally exposed to the sun and elements. In addition, there are slight shading and gloss differences between field-sprayed paint systems and pre-painted, coil-coated systems. These differences are more noticeable when using mica or metallic paint colors.

Polyester and Silicone Modified Polyester Finishes

1. All areas to be repainted should be pressure washed to remove all surface contaminants and to remove poorly adhered paint and clear coats. Washing process shall consist of high pressure washing of 2,000-5,000 psi (may be reduced on softer substrates such as aluminum) using the solution recommended in Chapter 2 Cleaning – Routine Washing.
2. Mask area to be repaired to eliminate any over spray onto existing structures.
3. Sand entire area to be repaired with fine sandpaper (400 grit) until surface is smooth and all nicks and scratches have been removed.
4. Wipe sanded area clean with a clean, white lint-free cloth dampened with suitable cleaner as identified in Section 2 – Cleaning, Valspar Cleaning and Maintenance Guide. Follow all instructions on proper handling of cleaning solutions, including use of proper safety gear and disposal.
5. If sanded to bare metal, pre-treat and prime the metal prior to painting to ensure proper adhesion of the air dry system.
6. For best results, primer and paints should only be applied when the temperature of the air and substrate is above 50 degrees F (10°C).

Chapter 4 – Paint Finish Repairs (continued)

7. Prime entire part uniformly using a good corrosion resistant automotive type primer to achieve a smooth, consistent film with complete hiding of the metal, dry film of 0.40-0.50 mils.
8. Minimum dry film thickness should be measured with a Nordson Microtest Gauge or equal.
9. It is not necessary to prime areas that do not show bare metal. If it is necessary to prime the area, then follow the recommendations of the primer's manufacturer for reduction and application techniques. For large areas, you may choose to use a Binks hand spray gun (or equivalent) with a cup reservoir. For smaller areas, you may use an artist's air brush or Crown spray tool #8010 with #8011 power pack aerosol from Crown Industrial Products, Hebron, IL 60034. HVLP (low-pressure, high-volume spray) equipment should be used to conserve material and contain paint mist/overspray.
10. If priming is necessary, the primer should be tack-free and ready to topcoat in 4 to 6 hours or as recommended by the manufacturer. If handling is necessary prior to top-coating, overnight dry time is recommended.
11. Topcoat using a good exterior grade acrylic paint or exterior machinery maintenance of the same gloss range as that of the surrounding area. Correct spray viscosity is dependent upon the application equipment selected and the recommendation of the paint manufacturer. Some degree of trial and error may be necessary to achieve the required appearance depending upon the conditions where the repair is being performed.

Product Sources – Polyester Finishes

- Air dry acrylic products may be obtained through Metl-Span Customer Relations, or through Custom Aerosol Products Inc. (972-382-4321, www.custom-aerosol.com).

Fluropon® PVDF (Fluoropolymer) Finishes

Primer is required when the Fluropon® coated surface has less than three (3) years of weather exposure. "ADS" is a PVDF based air-dry field repair touchup finish for scratches only, not large areas. It is supplied as a solution coating ready for on-site application. **No warranty.**

Chapter 5 – Dent or Tear Repairs

NOTE: Dents or tears in panels are NOT covered under Metl-Span factory warranties. For more information on coverage and exclusions, please refer to your warranty documents.

There are three main methods of dent or metal facing damage repairs. The first two involve patching or overlays, the third involves repair to the existing metal panel surface.

Patching method:

1. Field fabricate a patch from a section of matching metal skin.
2. If metal facing is torn and foam is damaged, repair foam by injecting two-part urethane into the void and let fully cure.
3. Seal the patch to the panel face with color matched urethane, silicone or polyether sealant and pop-rivet into place.

Overlay method:

Panels that become damaged from dents, large or multiple dings or irreparable scratches may be field repaired by using an overlay sheet of the same profile. Please contact Customer Relations for more specific instructions regarding overlays.

Panel surface repair method:

1. We strongly recommend that the services of a local qualified automotive body shop be used for this repair method.
2. Determine the type of paint system on the panel to be repaired (PVDF or polyester).
3. Mask off area to be repaired.
4. If metal facing is torn and foam is damaged, repair foam by injecting two-part urethane into the void and let fully cure. Level foam as necessary with wood rasp.
5. Remove paint and primer by sanding down to bare metal around area to be repaired.
6. Repair damage to face of panel with automotive body filler.
7. Use separate piece of matching metal skin to imprint proper embossing texture into filler (if required to match panel surface).
8. Prime and repaint over repaired area using procedures outlined in Chapter 4.
9. "Dentless repair" methods may also be attempted depending on the shape and size of the damage. Consult with a qualified automotive body shop to determine applicability of this repair method.

NOTE: Large areas of damage may require complete panel replacement.

Chapter 6 – Replacement Parts or Service

Replacement panels, trim pieces and accessories may be obtained through your local Metl-Span panel contractor, or may be ordered directly through Customer Relations. When calling to place an order, please reference the original Metl-Span job number (if available), project name, year built, original panel contractor and building address.



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