

**CARE & MAINTENANCE
OF PRECOATED
KYNAR 500[®] OR
HYLAR 5000[™]
METAL PANELS &
ACCESSORIES**



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CARE & MAINTENANCE - KYNAR 500[®] OR HYLAR 5000[™] METAL PANEL & ACCESSORIES

Care and Maintenance of Precoated Kynar 500® or Hylar 5000™ Metal Panels & Accessories

Kynar 500® or Hylar 5000™ full-strength 70% PVDF is a premium-quality factory-applied finish which retains its uniform appearance through many years of normal service and weathering. Proper installation and maintenance are both crucial to guarantee the best possible service life and appearance from metal panels and accessories prefinished with Kynar 500® or Hylar 5000™.

I. Storage and Installation

Steps to protect precoated metal sheets against moisture before installation are important to prevent rusting (oxidation) of the metal substrate. When metal sheets which are stacked closely together or coil material are exposed to moisture and heat, oxidation or rusting of the metal substrate can begin. On galvanized steel substrates, the normal sacrificial reaction of the zinc coating will occur, forming a white powder. This type of oxidation can occur beneath the paint film.

Take the following steps to control oxidation damage during storage:

1. Minimize exterior storage time at the job site whenever possible.
2. Position cover panel and slanted bundles of metal sheets to ensure proper drainage of rainwater or condensed water vapor. Eliminate sagging when moisture could collect and pool. Remove outer wrapping to prevent moisture from condensing in panel bundles.
3. Don't use moisture-trapping plastic tarpaulins to cover panels or coils.
4. Reduce temperature build-up by protecting bundles or coils from direct sunlight exposure.

Proper handling and stacking during transit can help prevent abrasion damage. A common cause of abrasion damage which can easily be avoided is the dragging of whole sheets, edges or corners of metal panels against other panels during installation. If both the paint and galvanized coating are cut through, red rusting will be retarded by the sacrificial action of the zinc coating, but enough damage to the surface appearance can still occur to make a touch-up operation necessary.

Improper cutting and drilling of precoated metal sheets can also cause unsightly rust spotting. Hot chips from drilling, saws or cutting discs can get embedded in the paint finish and create premature rusting, making it seem that the surfaces are corroding. Chips from adjacent steel work can embed in the paint surface of unprotected metal sheets nearby. Eliminate this problem by shearing whenever possible. Protect the paint surface temporarily with a plastic cover when saws, drills or cutting disks are in use around it. Turning over prepainted sheets while cutting them so that chips will fall on the inside surface also helps.

Workers should take care to avoid stepping on or exerting pressure against any steel chips which could embed the chips in the paint film. Immediately brush steel chips off the paint surface, using a stiff fiber brush. If they've already become embedded, dislodge them by mechanical means.

Installed sheets should never be placed in contact with soil, and soil should never be pushed against installed sheets for final grading. All grease, oil, dirt, fingerprints or any other contaminants should be removed after installation to ensure proper service life from the

II. Cleaning Coated Surfaces

Although Kynar 500® or Hylar 5000™ 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.

Simple washing with plain water using hoses or pressure spray equipment is usually adequate. When surfaces are dulled by heavy deposits of dirt or other contaminants, a heavy-duty dry powdered laundry detergent (such as Tide®) mixed 1/3 cup with water may be used. A long-handled soft bristle brush will make cleaning easier. Follow the cleaning operation with a clear water rinse.

In areas subject to high humidity levels, mildew can occur. Although Kynar 500® or Hylar 5000™ finishes are inherently mildew-resistant, 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®)
- 2/3 cup tri-sodium phosphate or TSP (such as Soilax®)
- 1 qt. sodium hypochlorite 5% solution (such as Clorox®)
- 3 qts. water

Avoid strong solvent and abrasive-type cleaners. Remove caulk compounds, oil, grease, tars, wax and similar substances by wiping with a cloth soaked in mineral spirits. Wipe only contaminated areas; follow with detergent cleaning and rinse thoroughly.

III. Refinishing Factory-Coated Panels & Accessories

Properly refinished exterior building panels and accessories have a like-new appearance that protects the substrate from the environment. Carefully selecting the type of coating, along with proper surface preparation and application, are all essential elements of long-term performance satisfaction. Use professional painting of the surface whenever possible. Paint a 5' x 5' test area in a non-critical location first to ensure satisfaction before proceeding with the entire job.

Materials:

The proper selection of finishes from a broad range of coating types is important to achieving substrate protection, adhesion and appearance. Consult your ASI representative for recommended primer and topcoat materials.

Surface Preparation:

Prior to repainting, the entire surface being refinished must be cleaned of any surface contamination or poorly adherent coating. Pressure washing using a detergent solution is the recommended method. Corroded areas must be cleaned to bare metal by sandblasting, power tool cleaning or hand sanding. Any areas cleaned in this manner must then be pressure-cleaned to remove sanding residue.

Application:

Apply coatings only when both air and substrate temperatures are above 50F. Coatings can be sprayed, brushed or roller-applied. Spray application is recommended for large surface areas to achieve optimum appearance.

Primer:

All bare metal surfaces must receive one complete coat of Epoxy Chromate Metal Primer (contact ASI). Allow 3-4 hours before recoating. Complete all recoating within 96 hours. All other properly cleaned surfaces shall receive one coat of Vinyl Primer (contact ASI). Allow to dry a minimum of 2 hours before recoating.

Finish Coat:

All properly cleaned and primed surfaces shall receive a complete coat of ASI Touch-Up Coating. Depending on color selection, two complete coats may be required in order to achieve uniform color and gloss.

Recoatability Test:

Described here is one of a number of equally satisfactory procedures which can be used to test surface readiness for recoating:

Clean and otherwise prepare a small representative area of the surface being repainted. Apply a coat of the desired touch-up paint (including primer as specified above) and allow to dry according to manufacturer's instructions. When dry, take about 8 inches of gray duct tape; firmly smooth 3 to 5 inches of the tape onto the repainted area while holding the remaining tape by the free end. Rapidly pull off the tape, attempting to remove the touch-up coating. If the tape successfully removes the touchup coating, an intercoat adhesion primer must be used. Consult your local painting contractor if repaint materials or procedures other than those mentioned herein have been used.

Precautions:

Protect eyes, face and hands from direct contact with touchup paint and/or solvents. Provide good ventilation in work areas. Enforce no-smoking regulations. Remove all sources of ignition. These coatings contain solvents which are flammable, and care must be taken to avoid fire and explosions. Read and observe all cautions on labels and data sheets.

IV. Touch-Up Repair of Scratches and Minor Damage

Edges of deep scratches should be lightly sanded or feathered with #400 grit sandpaper. Take care not to remove the galvanizing.

Scratches and adjacent areas should be wiped with mineral spirits using a dampened lint-free cloth. Allow area to dry thoroughly before applying touch-up paint coating. Mix (shake or stir) touch-up paint thoroughly to ensure proper color and gloss match. Apply touch-up paint to damaged areas only. Use a good quality artist's brush to blend touch-up paint with factory finish surrounding scratched area. Drying time will depend on temperature, humidity and other factors, and should be checked after application.

PRECAUTIONS: Protect eyes, face and hands from direct contact with touch-up paints and/or solvents. Provide ventilation in work areas Enforce NO SMOKING regulations to avoid fires and explosion hazards.