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Conventional MAP® Substrate Preparation Recommendations

Step #1 - Matthews is for Professional Use Only.

Step #2 - Always follow proper safety precautions when using Matthews's products.

Safe usage requires reading, understanding, and following all label, MSDS, and other product literature before use.

Step #3 - The spray area and substrate must be warm and have adequate airflow. Application of primers, topcoats, and clear coats should never take place in temperatures under 60°F/16°C. Substrates should also be brought to or above this temperature guideline before applying any primer or topcoat.

Step #4 - Properly clean substrate.

Professionals don't even think about priming or painting over any substrate that hasn't been properly cleaned and prepared. Use proper cleaning products and procedures.

Step #5 - Knock down sharp edges whether routed or cut. Round any dramatic sharp edges on substrate. Primer and paint topcoat films are weakest on sharp 90 degree edges.

Step #6 - Use the right primer for every specific substrate. Always use the appropriate primer and application techniques suggested from the Matthews substrate guide.

Step #7 - "When in doubt, test it out."

Recommend testing first, the process for any new product, primer, or first time application procedures before permanent production begins. Remember that the change of seasons effect the temperature and humidity during application so periodic testing on application and adhesion confirm the product and production performance.

Step #8 - Choose the proper reducer for each application. Review product data sheet for reducer temperature guidance.

Step #9 - Allow specified times between coats. For both primers, topcoats, and clears, extend flash times between each coat application.

Step #10 - Contact Matthews Paint Company with any questions. Matthews's customer service and technical assistance are both available for any color formula match, specification, or technical question that may arise.

Call toll free at **1-800-323-6593** Or visit our web site at www.matthewspaint.com

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

Investigate or consult with the substrate manufacturer for information regarding proper cleaning and preparation for specialty coatings.

Recommend to periodically test adhesion on a sample of the substrate you are utilizing to ensure application process in your environment. Perform this test after a full cure of product has been applied (72 hours or more). A Cross-Hatch Adhesion test is the most common system utilized for this process.

Before opening the products listed, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Use product technical data sheets for guidance.

fire.

Always adhere to directions for proper respirator fit, use, and maintenance.

Wear eye and skin protection at all times when working in the spray area.

Observe all application precautions.

See Material Safety Data Sheets and labels for additional safety information and handling instructions - available on web site at www.matthewspaint.com.

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to Matthews Paint.

Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does Matthews Paint warrant freedom from patent infringement in the use of any formula or process set forth herein.

If you require technical assistance - please call toll free at 800-323-6593.

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Important Notes

Before any spray applications, consult your local city, local air quality districts, or government office to determine what regulations you must follow to be compliant with VOC regulations in your community.

Follow spray equipment manufacturer's instructions to prevent personal injury or



Prime with Metal Pretreatment, PT Filler, HBPT Filler, HBEF Filler, White or Black Epoxy primer, Polyester Primer Surfacer.

Etching Primers:

Metal Pretreatment:

74 734SP: RTS 6.34 VOC

- Clean with 45 330SP Speed Prep Cleaner
- Apply 1 wet coat Metal Pretreatment.
- Allow 15-30 minutes to flash.
- Topcoat.

74 734SP Metal Pretreatment

etching primer for use over

properties.

may not be the best choice of

Sanded, Shot, or Media blasted

due to the products ZERO filling

PT Filler:

74 760SP: RTS 6.4 VOC

- Clean with 45 330SP Speed Prep Cleaner
- Sandblasting or machine sand with 180-220 grit sandpaper to bare substrate.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat PT Filler.
- Allow 5 minutes to flash.
- Apply 2nd wet coat PT Filler.
- Allow 20-30 minutes to flash.
- Topcoat.

HBPT Self-etching Metal Treatment:

74 770SP: *RTS* 6.13 VOC

- Clean with 45 330SP Speed Prep Cleaner
- Sandblasting or machine sand with 120-220 grit sandpaper to bare substrate.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat HBPT Filler.
- Allow 5 minutes to flash.
- Apply 2nd wet coat HBPT Filler.
- Allow 20-30 minutes to flash.
- Topcoat.

HBEF Self-etching Metal Treatment:

74 780SP: RTS 6.04 VOC

- Clean with 45 330SP Speed Prep Cleaner
- Sandblasting or machine sand with 180-320 grit sandpaper to bare substrate.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat HBEF Filler.
- Allow 3-5 minutes to flash.
- Apply 2nd wet coat HBEF Filler.
- Allow 20-30 minutes to flash.
- Topcoat.



- Allow 10-15 minutes to flash.
- Allow 30-60 minutes to flash.
- Topcoat.

Polyester Primer Surfacer: 6001SP: RTS 1.8 VOC

- - Apply 1 wet coat.
 - Allow 20 minutes to flash. • Apply 2nd wet coat.
 - Allow 20 minutes to flash.

 - Topcoat.

Anodized Aluminum

- Allow 30-60 minutes to flash.
- Topcoat.

74 793SP

- Apply 1 wet coat.

- Topcoat.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

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- Sanding must be performed to remove all the Anodized surface from the aluminum.

When spraying 6001SP Polyester

Primer Surfacer, it is important

to refer to the technical sheets

for spray tip details. We

recommend the use of a 2.0

activated, mix thoroughly and

tip in the spray gun. When

apply immediately.

- Allow 10-15 minutes to flash.

Spray Bond:

Aluminum Shot, sanded, or media blasted.

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP:

Both are RTS 3,90-3,95 VOC • Clean with 45 330SP Speed Prep Cleaner. • Sand with 180-320 grit sandpaper. • Clean again with 45 330SP Speed Prep Cleaner. • Apply 1 wet coat Epoxy Primer. • Apply 2nd wet coat Epoxy Primer.

• Clean with 45 330SP Speed Prep Cleaner. • Sand with 80-220 grit sandpaper. • Clean again with 45 330SP Speed Prep Cleaner. • Mix Polyester Primer according to instructions. • Apply 3rd coat to cover porosity, if necessary. • Allow longer flash times between 3rd coats. • Allow 1.5 hours dry time before sanding, cleaning, and topcoating.

White Epoxy Primer or Black Epoxy Primer

274 908SP and 274 808SP: Both RTS 3.90-3.95 VOC

• Clean with 45 330SP Speed Prep Cleaner. • Sand surface with a "dual action" sander using 280-320 grit sandpaper removing all color from the substrate. • Clean again with 45 330SP Speed Prep Cleaner. • Apply 1 wet coat of Epoxy Primer. • Apply 2nd wet coat of Epoxy Primer.

• Clean with 45 330SP Speed Prep Cleaner. • Flash 5-10 minutes between coats. • Follow with a second wet coat. • Do not let dry - let tack up 20 minutes.



(Aluco Bond, Di-Bond, Allumilite, Alpolic, Alupanel and Ecopanel)

- Clean with 45-330SP Speed Prep Cleaner.
- Uniformly sand with 400-600 grit or scuff substrate with Scotch-Brite pad until sheen has been removed.
- Clean again with 45-330SP Speed Prep Cleaner.
- Topcoat.
- Check Adhesion.
- We recommend the use of the 274-908SP White Epoxy Primer for stronger adhesion.

White Epoxy Primer: 274-908SP:

- Clean, sand, and clean as written above.
- Apply 1 wet coat of epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat of epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Luminore

Hotter temperatures may cause the Spray Bond to set up faster than the process recommends. Topcoat may need to be applied using shorter flashtimes of the adhesive.

Spray Bond Adhesive:

- 74 793SP: RTS 7.12-7.16 VOC:
- Clean with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat of 74 793SP Spray Bond Adhesive.
- Do not allow 74 793SP Spray Bond Adhesive to dry before clear coating.
- Allow 5-15 minutes to flash.
- Apply 2nd wet coat of Spray Bond Adhesive.
- Allow 5-15 minutes to flash.
- Apply 1 wet coat of MAP Clear.
- Allow 5-15 minutes to flash.
- Apply 2nd wet coat of MAP Clear.
- Verify proper wet film build.
- Allow to dry.
- Check adhesion.



Metal Pretreatment:

- 74 734SP: RTS 6.34 VOC

- Topcoat.

PT Filler:

- Topcoat

- Topcoat.

- Apply 1 wet coat.
- Allow 5 minutes to flash.
- Apply 2nd wet coat.
- Allow 20-30 minutes to flash.
- Topcoat.

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Prime with Metal Pretreatment, PT Filler, HBPT Filler, HBEF Etching Filler, White or Black Epoxy primers.

• Clean with 45 330SP Speed Prep Cleaner • Apply 1 wet coat Metal Pretreatment. • Allow 15-30 minutes to flash.

74 760SP: RTS 6.4 VOC

• Clean with 45 330SP Speed Prep Cleaner • Sandblasting or machine sand with 180-220 grit sandpaper to bare substrate. • Clean again with 45 330SP Speed Prep Cleaner. • Apply 1 wet coat PT Filler. • Allow 5 minutes to flash. • Apply 2nd wet coat PT Filler. • Allow 20-30 minutes to flash.

HBPT Self-etching Metal Treatment:

74 770SP: RTS 6.13 VOC

• Clean with 45 330SP Speed Prep Cleaner • Sandblasting or machine sand with 120-220 grit sandpaper to bare substrate. • Clean again with 45 330SP Speed Prep Cleaner. • Apply 1 wet coat HBPT Filler. • Allow 5 minutes to flash. • Apply 2nd wet coat HBPT Filler. • Allow 20-30 minutes to flash.

HBEF Self-Etching Metal Treatment:

74 780SP: RTS 6.04 VOC: • Clean with 45 330SP Speed Prep Cleaner.

Continued...



HBEF Self-Etching Metal Treatment:

74 780SP: *RTS 6.04 VOC*:

- Clean with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat.
- Allow 5 minutes to flash.
- Apply 2nd wet coat.
- Allow 20-30 minutes to flash.
- Topcoat.

When spraying 6001SP Polyester Primer Surfacer, it is important to refer to the technical sheets for spray tip details. We recommend the use of a 2.0 tip in the spray gun. When activated, mix thoroughly and apply immediately.

Polyester Primer Surfacer:

6001SP: RTS 1.8VOC:

- Clean with 45 330SP Speed Prep Cleaner.
- Sand with 80-220 grit sandpaper.
- Clean again with 45 330SP Speed Prep Cleaner.
- Mix Polyester Primer according to instructions.
- Apply 1 wet coat.
- Allow 20 minutes to flash.
- Apply 2nd wet coat.
- Allow 20 minutes to dry.
- Topcoat.

White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP Both are RTS 3.90-3.95 VOC

- Clean with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Stee Hot Dipped Galvanized Surfaces (Non-Passivated)

Passivators or stabilizers and many galvanized metal manuacturers apply a "passivator" clear coating

- Clean again with 45330 Speed Prep Cleaner.
- Apply 1 wet coat Epoxy Primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat Epoxy Primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Steel Hot Dipped Galvanized Surfaces (Passivated)

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP:

- Apply 1 wet coat Epoxy Primer.
- Allow 10-15 minutes to flash.
- Allow 30-60 minutes to flash.
- Topcoat.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

American Hot-Dipped Galvanized Association both state the this "passivator or stabilizing" pretreatment prohibits adhesion from taking place.

Check with environmental

regulations or mechanical restrictions.

and treatment to protect

from stains (White Rust)

Painting council and the

galvanized while in storage

White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP:

• Clean with 45330 Speed Prep Cleaner. • Scuff surface with Scotch-Brite pad.

• Remove the passivator treatment by brush blasting. • Clean with 45330 Speed Prep Cleaner. • Verify all oils and surface contaminants have been removed.

- Sand with 180-320 grit sandpaper.
- Clean again with 45330 Speed Prep Cleaner.
- Apply 2nd wet coat Epoxy Primer.





White Epoxy Primer or Black Epoxy Primer:

- Allow 30-60 minutes to flash.
- Topcoat.

White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC

- Clean with 45 330SP Speed Prep Cleaner.
- Scuff surface with Scotch-Brite pad.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Steel New Galvanized, Gavaneal, Galvalume, or Zinc Coated.

White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC:

- Clean with 45 330SP Speed Prep Cleaner.
- Verify all oils and surface contaminants have been removed.
- Sand surface with 180-220 grit sandpaper.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Inspect existing coating for any delaminating or degradation to determine if existing coating should be removed. If so, repair or strip as necessary.

Repairs next to primed and/or painted surfaces

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP Both are RTS 3.90-3.95 VOC

- Apply 2nd wet coat.
- Allow 30-60 minutes to flash.
- Topcoat.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

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274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC

• Clean with 45 330SP Speed Prep Cleaner.

• Sand surface thoroughly with a "dual action" sander using 180-220 grit sandpaper. • Clean again with 45 330SP Speed Prep Cleaner.

• Apply 1 wet coat epoxy primer.

• Allow 10-15 minutes to flash.

• Apply 2nd wet coat epoxy primer.



• Clean with 45 330SP Speed Prep Cleaner.

• Sand complete surface area with 180-220 grit sandpaper.

• Clean again with 45 330SP Speed Prep Cleaner.

• Apply 1 wet coat epoxy primer over all surface areas.

• Allow 10-15 minutes to flash.



Always test painted surface for compatibility before use of Matthews primers and topcoats.

Inspect existing coating for any delaminating or degradation to determine if existing coating should be removed. If so, repair or strip as needed.

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP Both are RTS 3.90-3.95 VOC

Same procedure for all three Epoxy Primers.

- Clean with 45 330SP Speed Prep Cleaner.
- Sand with 220-320 grit sandpaper or scotch-bite pad as necessary.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat of epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.

Bondo Filled Areas

On repaired bare metal area:

- Clean with 45 330SP Speed Prep Cleaner.
- Apply 1-2 wet coats of the 274 908SP White Epoxy Primer or 274 808SP Black Epoxy Primer and allow to dry.
- Clean repaired area with 45 330SP Speed Prep Cleaner.
- Apply sufficient process of Bondo applications for desired filling property.
- Allow to fully dry.
- Sand if necessary.
- Clean with 45 330SP Speed Prep Cleaner all areas surrounding Bondo. Cleaner should never come in contact with Bondo.
- Confirm that Bondo areas are thoroughly cured.
- If necessary, to fill pin holes ONLY, apply spot putty and allow to dry.
- Sand or scuff painted areas around and including Bondo.
- Clean again with 45 330SP Speed Prep Cleaner.

Cleaner should never come in contact with Bondo. Immediately prime with White or Black Epoxy, Polyester Primer Surfacer, or U-Prime. These processes are on the next page.

White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP Both are RTS 3.90-3.95 VOC

- Apply 1 wet coat Epoxy Primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat Epoxy Primer.
- Allow 30-60 minutes to flash.
- Topcoat.



When spraying 6001SP Polyester Primer Surfacer, it is important to refer to the technical sheets for spray tip details. We recommend the use of a 2.0 tip in the spray gun. When activated, mix thoroughly and apply immediately.

Polyester Primer Surfacer:

6001SP: RTS 1.8VOC: • Mix Polyester Primer according to instructions. • Apply 1 wet coat. • Allow 20 minutes to flash. • Apply 2nd wet coat. • Allow 20 minutes to flash. • Apply 3rd or 4th coat to cover porosity, if necessary. • Allow longer flash times between 3rd and 4th coats. • Allow 1.5 hours dry time before sanding. • Sand repaired area. • Sand or scuff remaining surface area. • Clean with 45 330SP Speed Prep Cleaner.

- - Topcoat.

U-Prime application:

- Apply 1 wet coat.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat.

ACTVIC (Acrylite, Crylex, Plexiglas, Lucite, Implex)

Do not allow Tie Bond to drv between coats or before topcoating. Decrease flash time between coats based on temperature if needed. We recommend the use of a 2.0 tip in the spray gun. When activated, mix thoroughly and apply immediately.

the use of Tie Bond as an adhesive over acrylics to ensure

proper adhesion.

Tie Bond Adhesive:

- Topcoat. Matthews strongly recommends

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- Clean with 6428SP Plastic Prep.

- - Allow 5-10 minutes to flash.

 - Allow 5-10 minutes to flash.

274 685SP: RTS 3.5 or 2.8 VOC: • Allow 10-15 minutes to flash. • Apply 3rd coat if necessary. • Allow to dry 24 hours before sanding, cleaning, and topcoating.

74 777SP: RTS 6.4-6. 6 VOC: • Can use 6428SP Plastic Prep as an anti-static application, once surface has been cleaned by applying a light mist coat over entire surface area and allow product to evaporate. • Apply 1 wet coat of Tie Bond Adhesive. • Apply 2nd wet coat of Tie Bond Adhesive.



Tie Bond Adhesive:

- **74 777SP:** *RTS* 6.4 6.6 VOC:
- Clean with 6428SP Plastic Prep.
- (To remove surface static, apply mist coat of 6428SP Plastic Prep, allow to dry)
- Prime with 1 wet coat 74 777SP Tie Bond Adhesive.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of Tie Bond.
- Allow 5-10 minutes to flash.
- Topcoat.

Side Fill Technique, if desired:

- Apply 1 wet coat of 74 777SP Tie Bond Adhesive.
- Apply 1-3 coats of 6001SP Polyester Primer Surfacer on rough side sections.
- Allow 1 ½ hours to dry.
- Sand to desired smoothness.
- Clean sides and face with 6428SP Plastic Prep.
- Topcoat.

Photopolymer _{Jet}

- Clean with 6428SP Plastic Prep.
- Can use 6428SP Plastic Prep as an anti-static agent by applying a mist coat and allowing to dry.

Tie Bond Adhesive:

74 777SP: *RTS* 6.4 - 6.6 VOC

- Prime with 1 wet coat 74 777SP Tie Bond Adhesive.
- Allow 5-10 minutes to flash.
- Apply 1-2 medium coats of 6010SP Flex Sealer, if required.
- Allow 30 minutes to flash between coats.
- Topcoat.

Photopolymer (Nova) NovEX or NovAcryl

First surface painting does not require 74777SP Tie Bond Adhesive. Second surface or Subsurface painting may require 74777SP Tie Bond Adhesive for topcoat adhesion.

- Clean with 6428 Plastic Prep.
- Can use 6428SP Plastic Prep as an anti-static agent by applying a mist coat and allowing to dry.

Topcoat Direct:

- Apply 1 medium wet topcoat
- Allow 10-15 minutes to flash.
- Apply 2nd medium wet topcoat

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Poly-Carbonate manufacturers recommend that all moisture be heat purged out of substrate before coating application. Use of any MPC primer, adhesive, or topcoat will alter this substrates impact strength.

Tie Bond Adhesive:

74 777SP: RTS 6.4 - 6.6 VOC • Clean with 6428SP Plastic Prep. • Can use 6428SP Plastic Prep as an anti-static application, once surface has been cleaned by applying a mist coat over entire surface area and llow product to evaporate. • Apply 1 wet coat of Tie Bond Adhesive. • Allow 5-10 minutes to flash. Apply 2nd wet coat of Tie Bond Adhesive.

- Topcoat.

- OR -

- Allow 10-15 minutes to flash.
- Allow 10-15 minutes to flash.

Vinv

Clean with 6428SP Plastic Prep.

- Scuff surface with Scotch-Brite pad.

- Allow 10-15 minute to flash.
- Apply 2nd wet coat of MAP topcoat mixed properly with Flex Additive.

Trim Cap

- Clean with 45 330SP Speed Prep Cleaner
- Abrade with Scotch-Brite pad.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat of MAP topcoat mixed properly with 47 474SP Flex Additive.
- Allow 10-15 minute to flash.

Polycarbonate (Lexan)

• Allow 5-10 minutes to flash.

• Apply 1 light coat of MAP topcoat properly mixed with 74 102SP or

- 74 103SP Converter (makes basecoat).
- Apply 1 wet coat of unconverted MAP topcoat.
- Apply 2nd wet coat of unconverted MAP topcoat.

(3M, Avery, Mactac, Oracale, FDC, & Ultramark)

- Clean again with 6428SP Plastic Prep.
- Apply 1 wet coat of MAP topcoat mixed properly with 47 474SP Flex Additive.

(Jewelite, Silvatrim)

• Apply 2nd wet coat of MAP topcoat mixed properly with Flex Additive.



- Clean with 45 330SP Speed Prep Cleaner.
- Verify that all surface areas are thoroughly cleaned.
- Repeat cleaning process if necessary.
- Apply 1 wet coat of MAP topcoat mixed properly with 47 474SP Flex Additive.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat of MAP topcoat mixed properly with Flex additive.

EPS-Polystyrene (Gator Foam)

Pittsburg Paint's 17-21 Seal Grip Acrylic Latex Primer (water based) works well in this application. Allow at least 60 minutes after application for topcoating.

- Clean substrate with clean compressed air.
- Apply latex exterior primer in order to fill and seal the entire foam surface areas. Allow to dry.
- Scuff surface with Scotch-Brite pad.
- Clean again with 45 330SP Speed Prep Cleaner.
- Topcoat.

Wood Applying Color

Test for the moisture content of the wood before any application. Moisture content must be less than 13%. Certain applications using exterior wood as a substrate will expand and/or contract too much for Matthews to be used. All surface areas of the wood must be coated.

- Sand any rough areas with 180-220 grit sandpaper.
- Remove dust with clean compressed air and tack rag.
- Spot prime over knots, cut areas, or ends with 274 908SP White Epoxy Primer or 274 808SP Black Epoxy Primer.
- Allow to dry 30-60 minutes.
- Topcoat.

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP

Both are RTS 3.90-3.95 VOC

- Sand with 180-220 grit sandpaper.
- Remove dust with clean compressed air and tack rag.
- Apply 1 wet coat epoxy primer.
- Allow 5-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.



Ensure that moisture content of

When spraying 6001SP Polyester

Primer Surfacer, it is important

to refer to the technical sheets

for spray tip details. We

recommend the use of a 2.0

activated, mix thoroughly and

regarding the use of Tie Bond

Adhesive.

tip in the sprav gun. When

the substrate is less than 13%.

Check with local EPA rules

• Topcoat.

- Topcoat.

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Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

• Clean with 45330SP Speed Prep Cleaner. • Scuff surface with Scotch-Brite pad. • Clean again with 45330SP. • Prime with one wet coat 74777SP Tie Bond Adhesive. Allow 5-10 minutes to flash • Apply second wet coat of 74777SP Tie Bond Adhesive. • Allow 5-10 minutes to flash

MDO, MDF, and Extira

Epoxy priming:

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC

• Remove dust with clean compressed air and tack rag. • Sand, if necessary. • Remove dust with clean compressed air and tack rag. • Apply 1 wet coat epoxy primer. • Allow 5-15 minutes to flash. • Apply 2nd wet coat epoxy primer. • Allow 30-60 minutes to flash.

• All surfaces must be sealed. Check adhesion.

Polyester Primer Surfacer:

6001SP: RTS 1.8 VOC

• Remove dust with clean compressed air and tack rag. • Sand, if necessary. • Remove dust with clean compressed air and tack rag. • Apply 1 wet coat polyester primer. • Allow 20 minutes to flash. • Apply 2nd wet coat polyester primer. • Allow 20 minutes to flash. • Apply 3rd coat to cover porosity, if necessary.

• Allow 1.5 hours dry time before sanding, cleaning, and topcoating.

Scooter Board

HDU or Polyurethane Foam Board Poly Board, Sign Foam, Precision Board, Jasper Board.

Polyester Primer Surfacer:

• Clean substrate with clean compressed air.

Mix Polyester Primer according to instructions.

6001SP: RTS 1.8 VOC:

• Allow 20 minutes to flash.

• Apply 1 wet coat.

• Apply 2nd wet coat.



Fiberglass – Non Gel coated

All contanamants must be removed.

Prime with either 274 908SP White Epoxy Primer, 274 808SP Black Epoxy Primer, or 6001 Polyester **Primer Surfacer**

- Allow 10-15 minutes to flash.
- Apply 2nd wet coat.
- Allow 30-60 minutes to flash.
- two coats to fill fiberglass.
- Topcoat.

Polyester Primer Surfacer primer: 6001SP: RTS 1.8 VOC:

- Allow 20 minutes to flash.
- Allow 20 minutes to flash.

Fiberglass – Gel coated

 Inspect Gel Coat to ensure proper coverage of all pre-painted surfaces. • Clean with 6405SP Low VOC Cleaner. • Sand surface with 220-320 grit sandpaper. • Clean with 6405SP Low VOC Cleaner.

- Topcoat.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

for spray tip details. We

· Allow 20 minutes to flash. · Apply 3rd coat to cover porosity, if necessary. • Allow longer flash times between 3rd and 4th coats.

· Allow 1.5 hours or more dry time before sanding,

cleaning, and topcoating.

U-Prime application:

274 685SP: RTS 2.8 VOC:

- Clean substrate with clean compressed air.
- Apply 1 wet coat of 274 685SP U-Prime.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat of 274 685SP U-Prime.
- Allow 10-15 minutes to flash.
- Apply 3rd coat, if necessary.
- Allow 24 hours dry time before sanding, cleaning, and topcoating.

to refer to the technical sheets recommend the use of a 2.0 tip in the spray gun. When activated, mix thoroughly and apply immediately.

removed.

All contanamants must be



When spraying 6001SP Polyester

Primer Surfacer, it is important

to refer to the technical

apply immediately.

sheets for spray tip details. We recommend the use of a

2.0 tip in the spray gun. When

activated, mix thoroughly and



When spraying 6001SP Polyester Primer Surfacer, it is important



White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP Both are RTS 3.90-3.95 VOC

• Clean substrate with clean compressed air.

• Apply 1 wet coat of White or Black Epoxy primer.

• Apply the necessary number of coats to fill the imperfections.

• Extend flash times between each application of epoxy when adding more than

• Clean substrate with clean compressed air.

• Apply 1 wet coat polyester primer.

• Apply 2nd wet coat polyester primer.

• Apply 3rd coat to cover porosity, if necessary.

• Allow longer flash times between 3rd and 4th coats.

• Allow 1.5 hours dry time before sanding, cleaning, and topcoating.







- Clean substrate with compressed air.
- Clean with 5% Muratic acid & water solution. (Follow all safety instructions recommended by Muratic acid manufacturer!)
- Rinse substrate thoroughly with clean water and allow surface to dry.
- Clean again with compressed air.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.



White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC

- Clean surface with water to remove debris.
- Clean with 5% Muratic acid & water solution. (Use recommended safety instructions from Muratic acid manufacturer!)
- Rinse substrate thoroughly with clean water and allow surface to dry completely.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.



- Brush away any loose debris.
- Topcoat.

Pay care attention to these instructions, as they are very important to follow properly.

Moisture test level of substrate. Requires less than 13%.

Failure to ensure that moisture

and PH levels are within recommended limits will result in apparent or eventual **coating** failure.

- Rinse well with water.
 - - Allow 10-15 minutes to flash.
 - Apply 2nd wet coat epoxy primer.
 - Allow 30-60 minutes to flash.
 - Topcoat.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

• Clean substrate with compressed air. • Clean again with compressed air.

Cement Masonry, Concrete, Concrete Block, Dryvit, Stucco, and Texcoat

• Pressure clean entire surface with 2000 PSI at 3-5 GPM (Gallons Per Minute). • PH test level of substrate. Proper PH level must be less than 10 and higher than 5, neutral is 7, and preferred. (PH test pencils can be purchased at http://www.cole-palmer.com)

White Epoxy Primer or Black Epoxy Primer: 274 908SP or 274 808SP: Both are RTS 3.90-3.95 VOC

• Sand blast surface and remove debris with compressed air.

- Clean surface with a mixture 10% Hydrochloric Acid and water solution.
- (Use recommended safety instructions from acid manufacturer!)
- Allow to dry completely.
- Apply 1 wet coat epoxy primer.



White Epoxy Primer or Black Epoxy Primer:

274 908SP or 274 808SP: RTS 3.90-3.95 VOC

- Inspect coating to ensure a sound and secure finish.
- Sand blast away any loose coating from surface.
- Remove debris with compressed air.
- Rinse well with water and allow to dry.
- Sand surface with 180-220 grit sandpaper.
- Clean with water and allow to dry completely.
- Apply 1 wet coat epoxy primer.
- Allow 10-15 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow 30-60 minutes to flash.
- Topcoat.



Masonry, Concrete, Concrete Block-Previously Coated.

White Epoxy Primer: 274 908SP

- Surface needs to be vacuumed clean of all dust.
- Wipe surface with tack cloth.
- Apply 1 medium coat of 274 908SP White Epoxy Primer
- Allow 30 minutes to flash.
- Apply 2nd wet coat epoxy primer.
- Allow to dry overnight.
- Sand with 220-320 grit sandpaper.
- Clean with 45 330SP Speed Prep Cleaner.
- Topcoat.



Extremely difficult to paint even when flame or corona treatement process is used.

We do not recommend coating

glass or porcelain with

Matthews.

• Topcoat.

• No recommendation at this time.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

Polypropylene or

• Requires Flame or Corona treatment in order to alter the surface molecular structure, which allows a limited time period for the substrate to be paint receptive. All propylene and ethylene structures are different, so test for adhesion. • Clean with 6428SP Plastic Prep.





Clear Coat Preparation Recommendations

These are substrate guidelines to be used as a recommendation only.

Matthews Topcoat (Color)

- Allow topcoat 30 minutes to flash (or 15 minutes with 287 437SP Accelerator).
- Apply 1 wet coat of MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.

Matthews Topcoat After 24 Hours

- Clean with 45 330SP Speed Prep Cleaner.
- Scuff surface with Scotch-Brite pad or sand with 320-600 grit sandpaper.
- Clean again with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.

Aluminum

Spray Bond Adhesive: 74 793SP: RTS 7.12-7.16 VOC:

- Clean with 45 330SP Speed Prep Cleaner.
- Apply 1 wet coat of 74 793SP Spray Bond Adhesive.
- Do not allow Spray Bond to dry before clear coating.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of Spray Bond.
- Allow 5-10 minutes to flash
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.



Tie Bond Adhesive:

74 777SP: RTS 6.4-6.6 VOC: • Clean with 6428SP Plastic Prep. (1st or 2nd surface) • Apply a mist coat of 6428SP Plastic Prep and allow to dry in order to reduce static surface charge. • Apply 1 full wet coat 74 777SP Tie Bond Adhesive. • Do not allow Tie Bond Adhesive to dry before clear coating. • Allow 5-10 minutes to flash. • Apply 2nd wet coat of Tie Bond.

- Allow 5-10 minutes to flash.
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of MAP Clear.

Polycarbonate

Some Polycarbonate substrates can be too solvent sensitive for use of the preferred Tie Bond Adhesive. The application of a "converted" coat as a primer may provide the adhesion required and not adversely affect the substrate. PolyCarbonate manufacturers recommend that all moisture be heat purged out of substrate before any coating application. Use of any MPC primer or topcoat may alter the substrates impact strength.

Tie Bond Adhesive: 74 777SP: RTS 6.4-6.6 VOC:

- static surface charge.
- Apply 1 full wet coat 74 777SP Tie Bond Adhesive.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of Tie Bond Adhesive.
- Allow 5-10 minutes to flash.
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of MAP Clear.

Optional Converted Basecoat Application:

- static surface charge. • Apply 1 light coat of MAP Clear mixed with 74 102SP MAP Converter (basecoat).
- Allow 10-15 minutes to flash.
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only.

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Excludes Tactile Clear and HP Clear. These can not be





(Lexan)

• Clean with 6428SP Plastic Prep. (1st or 2nd surface) • Apply a mist coat of 6428SP Plastic Prep and allow to dry to reduce

- Do not allow Tie Bond Adhesive to dry before clear coating.

• Clean with 6428SP Plastic Prep. (1st or 2nd surface) • Apply a mist coat of 6428SP Plastic Prep and allow to dry to reduce



- Clean with 6428SP Plastic Prep.
- Apply 1 wet coat MAP Clear mixed with 47 474SP Flex Additive.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.

Trim Cap

- (Jewelite, Silvertrim)
- Clean with 6428SP Plastic Prep.
- Scuff surface with Scotch-Brite pad.
- Clean again with 6428SP Plastic Prep.
- Apply 1 wet coat MAP Clear mixed with 47474SP Flex Additive.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of MAP Clear.

Brass, Copper, or Cast Bronze

Substrate must be completely cleaned to ensure all contaminates have been removed.

Spray Bond Adhesive:

74 793SP: RTS 7.12-7.16 VOC:

- Clean substrate to remove oils, contaminants, oxidation, and watermarks.
- Clean surface with 45 330SP Speed Prep Cleaner.
- Wipe substrate with a chamois dampened with 74 737SP Braco Anti-Tarnish Pre-Treatment and allow to dry. Do not streak.
- Apply 1 wet coat of 74 793SP Spray Bond Adhesive.
- Do not allow 74 793SP Spray Bond Adhesive to dry before clear coating.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat of Spray Bond Adhesive.
- Allow 5-10 minutes to flash.
- Apply 1 wet coat MAP Clear.
- Allow 5-10 minutes to flash.
- Apply 2nd wet coat MAP Clear.

Luminore

Hotter temperatures may cause the Spray Bond to set up faster than the process recommends. Topcoat may need to be applied using shorter flash times of the adhesive.

Spray Bond Adhesive: 74 793SP: RTS 7.12-7.16 VOC:

Wood

- Apply 2nd wet coat MAP Clear.

of the wood before any application. Moisture content must be less than 13%. Certain applications using exterior wood as a substrate will expand and/or contract too much for Matthews to be used. All surface areas of the wood must be coated.

Test for the moisture content

Conventional MAP® Substrate Preparation Recommendations. These guidelines are to be used as recommendations only. Revised 12/29/08

• Clean with 45 330SP Speed Prep Cleaner. Apply 1 wet coat of 74 793SP Spray Bond Adhesive. • Do not allow 74 793SP Spray Bond Adhesive to dry before clear coating. • Allow 5-10 minutes to flash. • Apply 2nd wet coat of Spray Bond Adhesive. • Allow 5-10 minutes to flash. • Apply 1 wet coat MAP Clear. • Allow 5-10 minutes to flash. • Apply 2nd wet coat MAP Clear.

• Sand any rough areas with 400-600 grit sand paper. • Remove dust with clean compressed air and/or tack cloth. • Apply 1 wet coat MAP Clear. • Allow 5-10 minutes to flash.