CLEARFIX™ AEROSPACE

Directions for Use Aug 2015

Aviation Window Restoration System - Clearfix Aerospace

The Aviation Window Restoration System by Clearfix Aerospace is an easy-to-use, three step restoration process with an optional UV filler designed for acrylic or polycarbonate windows. The Clearfix system removes light scratches, hazing and other small imperfections.

Important Note: Do Not Use the Clearfix System on:

- Glass windscreens

Important Note: Do Not Use the optional 3rd Step UV Filler on:

- Windows that come into contact with de-icing fluids
  De-icing fluid will remove the UV protection coating applied in the optional third step. For such windows, do not apply the optional UV protection filler.
- Transparencies that have pre-existing crazing. Crazing will be emphasized by the UV protection coating applied in the third step. For such transparencies, do not apply the optional UV protection filler.
- Where IPA will come into contact. IPA will remove the UV protection coating applied in the optional third step.

Products available in Aviation Window Restoration System by Clearfix Aerospace:

Description:	Size:	UPC	Part No:
Polish 1 – Clarity Restoration	110ml	10893412002062	CF1
Polish 2 – Optics Restoration	75ml	10893412002055	CF2
UV Coating w/applicator	75ml	10893412002079	CUV
Spray Cleaner	8oz	10893412002086	CCL
Small Buffing Pad, Yellow 3”	3”	10893412002130	CY3
Small Polishing Pad, Gray 3”	3”	10893412002123	GC3
Large Buffing Pad, Yellow 6”	6”	10893412002116	CY6
Large Polishing Pad, Gray 6”	6”	10893412002109	CG6
Backing Plate 3” for Buffer - USA	3”	10893412002147	CBP3B
Backing Plate 3” for Buffer	3”	108934120020xx	CBP3BC
Backing Plate 6” for Buffer - USA	6”	10893412002154	CBP6B
Backing Plate 6” for Buffer	6”	108934120020xx	CBP6BC
Clearfix Kit with polishes		10893412002093	CF99
Clearfix Kit with UV Coating		10893412002093	CF999
Microfiber Towel, Made in USA	12”x12”	10893412002161	CMFT
Microfiber Towel, Made in China	12”x12”	10893412002185	CMFTC

Other Recommended Products:

- Infrared thermometer
- Electric Variable Speed Polisher or Air Polisher / Buffer
- Heat Gun/Blower

STEP 1: Aviation Window Restoration Clarity Restoration Polish

Caution: Cleaning the windows with isopropyl alcohol during the buffing/polishing process will result in the removal of restorative coatings. Use Aviation Window Restoration Spray Cleaner for cleaning the substrate and removing compound during the buffing process.
Caution: Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber.
Caution: Do not continue buffing when the substrate starts becoming dry.

Note: Massage packaging before opening

- Mask around surface to be restored using masking or vinyl tape and cover the surrounding area with protective plastic. Overlap the tape onto the window by 1/8th inch to clean-up easier.
- Clean surface to be refinished thoroughly. Spray the surface to be cleaned liberally with Aviation Window Restoration Spray Cleaner and wipe the window with a microfiber cloth to clean and remove all contaminants. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dry.
- Use an electric buffer or air tool for best results. Prepare the buffer by installing the buffing pad backing plate. This backing plate has hooks on it to receive and attach the foam pads for buffing. Attach the yellow 3" (part #CY3) or 6" (part #CY6) yellow foam buffing pad. Use the size that allows you to buff all areas being restored. The 6" yellow pad has a dark circle on the back of the pad that indicates the attachment location for the 3" backing plate driver.
- The chemical in the package is activated by oxygen; **do not tear open and remove the entire top of the foil pack.****
  Tear open Aviation Window Restoration Clarity Restoration Polish package at the corner where indicated to form a pouring spout. Apply the product in quarter sized amounts and buff in a North/South, East/West pattern at 1000 - 1500 RPM while applying approximately 2-3 pounds of downward force with a rotary buffer. The appearance created during this process is one of equally spaced tree rings of buffing material being formed as you buff across the substrate.
  ** **If done incorrectly** and the chemical is overexposed, oxygen may activate the chemical and a new foil pack may be needed before the product is consumed in the buffing process.
- Do not continue buffing when the substrate starts becoming dry. Reapply clarity restoration polish and buff to ensure entire surface is covered twice.
- Clean the surface thoroughly with Aviation Window Restoration Spray Cleaner and a microfiber cloth to ensure all buffing material has been removed. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dry and no residue remains.

STEP 2: Aviation Window Restoration Optics Restoration Polish

Caution: Cleaning the windows with isopropyl alcohol during the buffing process will result in the removal of restorative coatings. Use Aviation Window Restoration Spray Cleaner for cleaning the substrate and removing compound between steps.
Caution: Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber.
Caution: Do not continue buffing when the substrate starts becoming dry.

Note: Massage packaging before opening

- Check the tape from step one, if it has been removed, mask around surface to be restored using plastic masking film and masking tape.
- Clean surface to be refinished thoroughly. Spray the surface to be cleaned liberally with Aviation Window Restoration Spray Cleaner and wipe the window with a microfiber cloth to clean and remove all contaminants. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dried.
- Use an electric buffer or air tool for best results. Prepare the buffer by installing the buffing pad backing plate. This backing plate has hooks on it to receive and attach the foam pads for buffing. Attach the grey 3" (part# CG3) or 6" (part# CG6) grey

foam buffing pad. Use the size that allows you to buff all areas being restored. The 6" grey pad has a dark circle on the back of the pad that indicates the attachment location for the backing plate driver.

- The chemical in the package is activated by oxygen; **do not tear open and remove the entire top of the foil pack.****
  Tear open the Aviation Window Restoration Optics Restoration Polish package at the corner where indicated on the package to form a pouring spout. Apply the product in quarter sized amounts and buff in a North/South, East/West pattern at 1000 - 1500 RPM while applying approximately 2-3 pounds of downward force with a rotary buffer. The appearance created during this process is one of equally spaced tree rings of buffing material being formed as you buff across the substrate.
  **** If done incorrectly,** the chemical may be overexposed, oxygen may activate the chemical and a new foil pack may be needed before the product is consumed in the buffing process.
- Do not continue buffing when the substrate starts becoming dry. Reapply optics restoration polish, buff to ensure entire surface is covered twice.
- Clean the surface thoroughly with Aviation Window Restoration Spray Cleaner and a microfiber cloth to ensure all buffing material has been removed. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dry and no residue remains.

STEP 3: Aviation Window Restoration UV Coating (Optional)

Caution: Do not overheat the substrate beyond the manufacturer's specification
Caution: Cleaning the windows with isopropyl alcohol during buffing or after the application of Aviation Window Restoration UV Coating will result in the removal of restorative coatings.
Caution: Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber
Note: Have all materials ready and move expeditiously as you complete this step. Keep the UV coating applicator saturated so you leave a layer of coating on the substrate without applying pressure.

- Ensure the substrate has been thoroughly cleaned with Aircraft Window Restoration Spray Cleaner and a microfiber cloth. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dry and no residue remains.
- Heat window using low setting on the heat gun to approximately 130°F (54°C). Keep heat gun approximately 6" from surface and moving from side to side to evenly warm the substrate. Clearfix recommends that an infrared thermometer be used during this process to monitor the temperature of the substrate.
- Tear open the package of **Aviation Window Restoration UV Coating** package at the corner where indicated on the package to form a pouring spout.**
  **** If done incorrectly** and the chemical is overexposed, oxygen may activate the chemical and a new foil pack may be needed before the product is consumed in the buffing process.
- Pour one half of the material slowly along the lower rounded edge surface of the UV coating applicator (included in package with UV coating), parallel to the length of the applicator.
- When the surface to be restored reaches approximately 130°F (54°C) apply the UV coating liberally in the direction of flight and to the entire surface. You will see lines on top of the substrate created by applying the UV coating. Watch closely. When the lines disappear, apply a second coat of the UV coating to the substrate. When the lines disappear after the second application of the UV coating, gently dry the surface with the heat gun on low for 10-15 seconds to cover approximately a 1-2 square foot of area.
- **Let the substrate dry and do not touch the surface with anything for at least one half hour after completing the UV coating application process.**

Aviation Window Restoration Spray Cleaner

Caution: Cleaning the windows with isopropyl alcohol during the buffing process will result in the removal of restorative material. Use Aviation Window Restoration Spray Cleaner for cleaning the substrate and removing compound between steps. The product is also recommended for cleaning on a regularly established interval.
Caution: Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber

Clean the surface to be refinished thoroughly. Spray the surface to be cleaned liberally with Aviation Window Restoration Spray Cleaner and wipe the window with a microfiber cloth to clean and remove all contaminants. Use a dry microfiber cloth after the initial cleaning step to ensure the window is completely dry and any streaks are removed.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, please visit www.clearfixaerospace.com or call 1-619-297-3678.

For Additional Information

Call 1-619-297-3678, or e-mail info@clearfixaerospace.com

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that Clearfix Aerospace believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond Clearfix Aerospace's control and uniquely within user's knowledge and control can affect the use and performance of a Clearfix product in a particular application. Given the variety of factors that can affect the use and performance of a Clearfix product, user is solely responsible for evaluating the Clearfix product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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