METAL ROOF SPECIFICATIONS
PBR & R-PANEL
(EXPOSED FASTENER)

PRODUCTS

FAR System™ products are formulated using a Polyurethane-Acrylic Hybrid technology providing outstanding weathering and waterproofing capabilities. (Refer to datasheets for more details)

Required Products:

1. Rinseable Primer™ is an environmentally friendly bio-degradable cleaner.
2. Rust Primer™ is a corrosion-resistant and rust-converting primer.
3. FiberSeal Caulk™ is a fiber reinforced Hybrid Polyurethane-Acrylic caulk.
4. FiberSeal Base™ is a fiber reinforced Hybrid Polyurethane-Acrylic sealant.
5. ProCoat Base™ is a Hybrid Polyurethane-Acrylic base membrane.
6. ProCoat Finish™ is a Hybrid Polyurethane-Acrylic membrane.

All materials must be part of the Fluid Applied Roofing products system (FAR System™ products)

RECOMMENDED SURFACES FOR APPLICATION

Metal roof substrates.

For all other surfaces, please consult your Fluid Applied Roofing representative.

APPLICATION CONDITIONS

Application during periods of low temperature or high humidity will extend dry time. Maximum humidity 85%. Do not apply when rain is forecast or when temperatures are below 50°F (10°C). Allow FAR System™ products to dry before being subjected to rain, heavy dew, or temperatures below 40°F. (See Dry Time chart for information)

Wind loss calculations should be considered to achieve the correct DFT requirements.

APPLICATION TEMPERATURE: 50° F to 105° F (10° C to 40° C)
TIME BETWEEN EACH APPLICATION: See the Dry Time chart at the end of this document.
KEEP FROM FREEZING

INSTALLATION INSTRUCTIONS

1. A field adhesion test is required before installing Fluid Applied Roofing products.
2. Utilize a wet mil gauge during the installation of all FAR System™ products to ensure application compliance.
3. Warranties are only available when installed/inspected by a FAR® certified contractor/inspector.
4. **SURFACE PREPARATION:**
    A. Remove all asphalt patching products, silicone caulks, or other incompatible or loose repair products from the metal roof before installing the FAR System.
    B. If polyester fabric or butyl seam tape has been previously installed, remove sample sections to inspect for rust. If rust or moisture is present, remove all previously installed polyester fabric or butyl seam tape from the entire roof and prime with Rust Primer™. If panels are severely damaged, replace metal panels.

C. Tighten all fasteners, replacing all loose or missing fasteners. If fasteners are stripped, use oversized fasteners to replace the stripped fasteners. Install additional fasteners as needed to close gaps in seams, flashing, etc.
D. After diluting the Rinseable Primer Concentrate™, per the mixing instructions, apply at **.25 gals per square (400 SF/gal)** to the roof substrate before installing any FAR System™ products. Do not allow to completely dry before power washing. Recommended application is with a hand pump low-pressure sprayer.
E. High-pressure wash utilizing a minimum 3000 psi pressure washer to remove dirt, loose coatings, loose rust, chalk, and other debris which could prevent adhesion.
F. Surface must be dry before installing the FAR System™ products.
G. Prime all rusted metal with Rust Primer™ at a rate of .5 gals per square.
H. Replace missing or aged foam closures with new foam closures to ensure a watertight seal where foam closures are present. **DO NOT** apply FiberSeal Base over the foam closures.
    a. EZ Vent closures can be used at the ridge cap on screw-down metal roofs instead of foam closures. (Call for information on EZ Vent closures)
I. Repair damaged/crimped metal roof ribs using compatible metal to strengthen the damaged rib. (This is the preferred method) If repairing with metal is not an option, use polyester fabric or butyl seam tape.

5. **LEAK-PROOFING APPLICATION:**
Spray apply FiberSeal Base™ to completely seal all seams and flashings as detailed below. Do not apply more than 80 wet mils in a single application. For gaps over 1/4" prefill with FiberSeal Caulk™. For best results set pressure between 1000-1600 psi.

A. **Panel end laps:** Ensure that the material is sprayed/rolled/brushed into the lap seam between the metal panels. Then the application must completely cover the seam and extended a minimum of 6” on each side of the end lap seam. Feather out the application to allow for smooth water flow across the end lap. The coverage rate is approximately 25 LF/gal.
B. **Fasteners:** This application must extend a minimum of 3” on each side of the fastener. The coverage rate is approximately 450 fasteners/gal or (25 squares/gal).
C. **Roof Penetrations:** For all roof curbs, exhaust vents, rake details, ridge cap seams, and any other roof penetrations and flashing detail, this application must extend a minimum of 6” on each side of the seam or penetration. The coverage rate is approximately 25 LF/gal.
D. **Vertical lap seams:** This application must completely cover the seam and extended a minimum of 2.5” on each side of the vertical seam. The coverage rate is approximately 60 LF/gal.

6. **FLUID MEMBRANE APPLICATION:**
   A. **10-Year Warranty:** Spray apply ProCoat Base ™ at 1.0 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 1.5 gals per square over the entire roof. The total application rate is 2.5 gals per square.
   B. **15-Year Warranty:** Spray apply ProCoat Base ™ at 1.5 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 1.5 gals per square over the entire roof. The total application rate is 3.0 gals per square.
   C. **20-Year Warranty:** Spray apply ProCoat Base ™ at 1.75 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 2 gals per square over the entire roof. The total application rate is 3.75 gals per square. **NOTE: Requires pre-approval.**
   D. **Allow additional material to account for the stretch out of metal roof panels.** (Multiply square feet by approximately 1.15 to get square feet with stretch factor)

MIXING INSTRUCTIONS

Mixing is required.

EQUIPMENT RECOMMENDATIONS

SPRAY EQUIPMENT: For spray application, we recommend using a Graco GH 833 or equal.
TIPS: The recommended tip size for the FiberSeal Base™ application is .043 and the recommended tip size for ProCoat Finish™ is .031. The fan width is based on application and preference.

PACKAGING INFORMATION

5 gallons (18.9 L)
55 gallons (208.1 L)
275 gallons (1040.9 L)

WARRANTY

This product is manufactured in accordance with ISO 9001-2008 standards. Seller and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss, or damage, direct or consequential, arising from the use or the inability to use the product for its intended use. The user assumes all risk and liability. Color fade is not covered under warranty.

DISCLAIMER

The information and recommendations outlined in this product datasheet are based upon tests conducted by or on behalf of Fluid Applied Roofing, LLC. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of the publication. Consult your Fluid Applied Roofing representative to obtain the most current Product Data information.

METAL ROOF SPECIFICATIONS
PBR & R-PANEL
(EXPOSED FASTENER)

DRY TIME

The chart below is for reference only and will vary with sun and humidity. These are general guidelines determined at 50% relative humidity on a sunny day.

TEMPERATURE		RAIN & DEW RESISTANT	RECOAT	DRY HARD
100° F	38° C	1 - 2 HOURS	2 - 4 HOURS	16 HOURS
77° F	25° C	2 - 4 HOURS	4 - 6 HOURS	24 HOURS
59°F	15° C	4 - 6 HOURS	6 - 8 HOURS	30 HOURS

Drying time is temperature, humidity, and film thickness dependent.

CLEAN UP

Remove the spray tip and spray tip guard and clean the spray equipment and accessories with water until the water is clear. It is suggested to rinse the spray equipment and accessories with a mixture of ammonia and water after the spray equipment has been thoroughly cleaned with water. Add one gallon of ammonia to four gallons of water and run this mixture through the spray machine and accessories for approximately five minutes. If using ammonia, follow all applicable regulations, laws, and standards, including those regarding health, safety, and environmental protection. For example, utilize all proper personal protective equipment and do not spray the cleaning solution into the air. Fluid Applied Roofing, LLC, including its employees, affiliates, and owners, is not liable for any injury, loss, or damage, direct or consequential, arising from any use of ammonia or other cleaning solution. The user assumes all risk and liability. Once the spray equipment is clean, follow the equipment manufacturers' recommendations for storage instructions.

METAL ROOF SPECIFICATIONS
STANDING SEAM

PRODUCTS

FAR System™ products are formulated using a Polyurethane-Acrylic Hybrid technology providing outstanding weathering and waterproofing capabilities. (Refer to datasheets for more details)

Required Products:

1. Rinseable Primer™ is an environmentally friendly bio-degradable cleaner.
2. Rust Primer™ is a corrosion-resistant and rust-converting primer.
3. FiberSeal Caulk™ is a fiber reinforced Hybrid Polyurethane-Acrylic caulk.
4. FiberSeal Base™ is a fiber reinforced Hybrid Polyurethane-Acrylic sealant.
5. ProCoat Base™ is a Hybrid Polyurethane-Acrylic base membrane.
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For all other surfaces, please consult your Fluid Applied Roofing representative.

APPLICATION CONDITIONS

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Wind loss calculations should be considered to achieve the correct DFT requirements.

APPLICATION TEMPERATURE: 50° F to 105° F (10° C to 40° C)
TIME BETWEEN EACH APPLICATION: See the Dry Time chart at the end of this document.
KEEP FROM FREEZING

INSTALLATION INSTRUCTIONS

1. A field adhesion test is required before installing Fluid Applied Roofing products.
2. Utilize a wet mil gauge during the installation of all FAR System™ products to ensure application compliance.
3. Warranties are only available when installed/inspected by a FAR® certified contractor/inspector.
4. **SURFACE PREPARATION:**
    A. Remove all asphalt patching products, silicone caulks, or other incompatible or loose repair products from the metal roof before installing the FAR System.
    B. If polyester fabric or butyl seam tape has been previously installed, remove sample sections to inspect for rust. If rust or moisture is present, remove all previously installed polyester fabric or butyl seam tape from the entire roof and prime with Rust Primer™. If panels are severely damaged, replace metal panels.

C. Tighten all fasteners, replacing all loose or missing fasteners. If fasteners are stripped, use oversized fasteners to replace the stripped fasteners. Install additional fasteners as needed to close gaps in seams, flashing, etc.
D. After diluting the Rinseable Primer Concentrate™, per the mixing instructions, apply at **.25 gals per square (400 SF/gal)** to the roof substrate before installing any FAR System™ products. Do not allow to completely dry before power washing. Recommended application is with a hand pump low-pressure sprayer.
E. High-pressure wash utilizing a minimum 3000 psi pressure washer to remove dirt, loose coatings, loose rust, chalk, and other debris which could prevent adhesion.
F. Surface must be dry before installing the FAR System™ products.
G. Prime all rusted metal with Rust Primer™ at a rate of .5 gals per square.
H. Remove any existing patching materials from the cinch straps. Loosen the fasteners and insert a generous bead of polyurethane caulk around each fastener, between the cinch strap and the fastener on the top and bottom sides of the cinch strap. As an alternate, you can install butyl mastic between the roof panel and the cinch strap at each fastener hole. Tighten all fasteners to secure the cinch strap. Follow building manufacturers' recommendations on how to tighten cinch straps. Some require hand tighten only. Some manufacturers will allow you to permanently remove the cinch strap and install additional stitch fasteners at the lap. This is the best option if possible. Contact us for further information.

5. **LEAK-PROOFING APPLICATION:**
Spray apply FiberSeal Base™ to completely seal all seams and flashings as detailed below. Do not apply more than 80 wet mils in a single application. For gaps over 1/4" prefill with FiberSeal Caulk™. For best results set pressure between 1000-1600 psi.

A. **Panel end laps:** Ensure that the material is sprayed into the lap seam between the metal panels. Then the application must completely cover the seam and extended a minimum of 6" on each side of the end lap seam. Feather out the application to allow for smooth water flow across the end lap. Do not encapsulate the cinch straps with FiberSeal Base. The coverage rate is approximately 25 LF/gal.
B. **Fasteners:** This application must extend a minimum of 3" on each side of the fastener. The coverage rate is approximately 450 fasteners/gal.
C. **Roof Penetrations:** For all roof curbs, exhaust vents, rake details, ridge cap seams, and any other roof penetrations and flashing detail, this application must extend a minimum of 6" on each side of the seam or penetration. The coverage rate is approximately 25 LF/gal.
D. **Metal Closures:** This application must seal the entire metal closures under ridge caps and under any roof to wall details where metal closures may exist. The coverage rate is approximately 50 LF/gal.

1. **FLUID MEMBRANE APPLICATION:**
A. **10-Year Warranty:** Spray apply ProCoat Base ™ at 1.0 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 1.5 gals per square over the entire roof. The total application rate is 2.5 gals per square.
B. **15-Year Warranty:** Spray apply ProCoat Base ™ at 1.5 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 1.5 gals per square over the entire roof. The total application rate is 3.0 gals per square.

C. **20-Year Warranty:** Spray apply ProCoat Base ™ at 1.75 gals per square over the entire roof. Once cured, apply ProCoat Finish™ at 2 gals per square over the entire roof. The total application rate is 3.75 gals per square. **NOTE: Requires pre-approval.**
D. **Allow additional material to account for the stretch out of metal roof panels.** (Multiply square feet by approximately 1.25 to get square feet with stretch factor)

MIXING INSTRUCTIONS

Mixing is required.

EQUIPMENT RECOMMENDATIONS

SPRAY EQUIPMENT: For spray application, we recommend using a Graco GH 833 or equal.
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