



X-O₂/FR

Fire Retardant Coating

Product Description

X-O₂/FR is a three component acrylic-reinforced aliphatic, aromatic polyurethane protective coating system specially designed to meet the FAA's fire retardant standard for aircraft interiors. It establishes solid adhesion to various substrates and can be applied to horizontal, vertical, overhead and irregular shaped surfaces by properly trained and licensed applicators.

Application & Equipment

X-O₂/FR should be applied by factory trained personnel only. Standard application equipment is a factory authorized spray gun. When using as filler, X-O₂/FR may be applied with a trowel, putty knife or squeegee.

Apply in good weather when air and surface temperature are above 50°F and surface temperature is at least 5°F above the dew point. For optimum application properties, material should be between 50°F to 100°F prior to mixing and application. Maintain unmixed material in closed containers in protected storage at 40°F to 100°F.

Note: During breaks or any period of work stoppage, maintain air pressure to the spray gun with the trigger cocked to the open position. This will keep the air chamber and material flow chamber from getting clogged and will maintain the spray gun in a ready to use state. When adding fresh material to the hopper, return the trigger to the closed position.

Mixing

Mixing ratio of 3:1:1 by volume (3 part A to 1 part C to 1 part B plus color/tint). Licensed applicators shall refer to the factory authorized manual for specific color applications.

To facilitate mixing and application, store this product in a warm place (40°F minimum). Mix in the ratio as shown in the factory manual and/or as shown on color/tint containers. Shake A & B components thoroughly before combining. Mix combined components thoroughly (2-3 minutes) with a high-speed, non-explosive drill. Mixed material is ready for immediate use.

Reduction: None recommended.

Pot Life

Mixed material should be applied within 20 minutes. Elevated temperatures will reduce pot life. Do not attempt to apply material which has become too thick. It must be discarded. Mix only enough material for use within expected pot life.

Pot life time may vary with environmental or climactic conditions.

Curing

@ 70°F, 50% relative humidity. To Tack Free: 30-60 minutes. To Recoat: 6-10 hours depending on conditions. Maximum Recoat: one week. Immersion: 5-7 days minimum. Recommended maximum recoat time is one week. If recoating thereafter, inspect and remove surface contaminants. Apply representative test patches to confirm adhesion. High pressure detergent wash, surface abrading and/or priming may be necessary.

Ensure forced ventilation of any confined space during application and curing of this coating to ensure complete solvent release.

Colors and Finishes

Several standard color tints are offered by the manufacturer. Custom color can be accomplished by paint code number matched to a factory tint code.

Surface finish will vary from an orange peel texture to a very smooth texture with a semi-gloss finish. Aggregates (such as sand, rubber crumb, quartz, etc.) may be added to the final mix for a more aggressive finished surface. Licensed applicators shall refer to the factory manual for instructions on specific finishes.

Surface Preparation

Good surface preparation is essential to a satisfactory coating system. Surfaces to be coated shall be clean and dry to the touch. Remove all oil, grease, mildew or other contamination by detergent cleaning, solvent or other effective means. The licensed applicator shall refer to the factory manual to determine the substrate preparation method for the type of surface to be coated.

Surface preparation will vary by substrate. Acceptable substrates are aluminum, ceramic tile, concrete, fiberglass, metal and wood. Contact factory representative for other substrates to be considered. Abrade smooth, glossy surfaces. Use the Scorpion Prime Bond system as needed. Apply a test patch to confirm adhesion and compatibility.

Coverage

Solids Content (+/- 2%): 95% by weight
90% by volume

Number of Coats: Horizontal surfaces will only require one coat. Vertical and overhead surfaces may require two or more coats depending on final thickness desired. 62-250 mils may be applied per coat depending on application.

Coverage (theoretical): 18-22 ft² per gallon @ 62 mils or 1/16th inch.

Storage and Handling

Material must be stored and handled in compliance with all current and local regulations. Refer to the current MSDS for the latest safety and health information. Keep in cool, dry protected storage, well ventilated, between 45°F-95°F and out of direct sunlight. Maintain unmixed material in sealed containers at all times.

Material has a maximum shelf life of one year from date of manufacture if stored as indicated above, unopened in sealed containers. Ensure B and C components are consistent in appearance and viscosity after aggressive shaking and/or mixing. Scorpion 8001 Primer has a maximum shelf life of 3 months when stored as indicated above, unopened and in sealed containers. All Scorpion tints and the Scorpion DTM Primer must also be stored as indicated above and have maximum shelf lives of 6 months.

Read each components material safety data sheet (MSDS) before use. Safety precautions must be strictly followed during storage, handling and use.

Limited Warranty

The technical data, specifications and suggestions for use contained in this document and in the factory manual are true and correct to the best of our knowledge at the date of issuance. The statements of these documents do not constitute a warranty, expressed or implied, as to the performance of these products. Since Scorpion Protective Coatings, Inc. does not control the application of its products, or the condition of the surfaces to which they are applied, Scorpion Protective Coatings liability will under no circumstances exceed replacement of the product. All technical information is subject to change without notice.