Aircraft Painting Solution

SOLUTION PROFILE - Aircraft and Aircraft Part Painting

November 2003

Shop Task/Processes: Paint shop, landing gear shop, engine shop, structure, ground support equipment, and corrosion control

Key Issues: Cleaning of spray guns and parts and managing the hazardous waste generated costs money and can be

a VOC compliance issue for the spraying of paints, chemicals and primers.

Application Attributes: 3M[™] Paint Preparation System (PPS) minimizes the cleaning of spray guns and parts, reduces the

amount of cleaning solvents and reduces the cost for spraying aircraft and aircraft parts.



Spraying Clear Coat

PRODUCT SOLUTION



3M Part No.	Description	3M Part No.	Description
16000	3M [™] Paint Preparation	16099	3M [™] Paint Preparation
	System lids & liners		System lid dispenser
16001	3M [™] Paint Preparation	16023	3M [™] Paint Preparation
	System cups and collars		System large cups & collars
16019	3M [™] Paint Preparation	16024	3M [™] Paint Preparation
	System liner dispenser		System large lids & liners

Adapters are provided at no additional cost. Contact 3M with your spray gun model and make to request the right adapters.

KEY BENEFITS



Environmental Compliance - PPS reduces the amount of solvent painters use to clean spray guns. Disposable liners keep the majority of excess paint out of the user's gun washers. PPS will typically allow painters to change gun washing solution once a month instead of once a week.

Reduce Costs - Aircraft paints are expensive. PPS allows end users to mix a very small quantity of paint or to switch colors without disposing of paint. Also reduction in solvent used to clean gun, elimination of mixing cups and strainers results in cost savings. PPS can reduce the amount of material required for the job by as much as 2-4 ounces per spray cup load.

KEY ADVANTAGES



<u>Health and Ergonomics</u> - PPS weighs less than metal paint cups. On a siphon cup gun, PPS can reduce the weight of the gun by as much as one pound. Weight is extremely important for painters that have to spray paint all day and are constantly reaching over large aircraft parts.

<u>Adaptability</u> - PPS adapts to siphon or gravity feed spray guns. PPS has adapters available to convert existing guns to PPS to allow painters to continue using their own paint gun, which means they do not have to relearn how to spray. Modifications with adapters costs them little or nothing and actually lightens the total weight they are spraying.

3M AIRCRAFT PAINTING SOLUTION

RELATED GOVERNMENT REGULATORY, INDUSTRY SPECIFICATIONS AND EXPERIENCE

Industry

3M™ Paint Preparation System (PPS) is considered a disposable consumable. No specification is required.

SOLUTIONS FOR AIRCRAFT ISSUES



Minimizes cleaning and limits the release of VOCs

Industry is currently using metal or plastic cups on their spray equipment. PPS minimizes the cleaning of cups and measuring containers that in turn reduces the amount of solvents used in the facility.

PPS is clear so end users can see how much paint they have left and refill if necessary. PPS allows the end user to spray sideways and upside down. This is extremely important for painting inside avionics compartments, under the wings or the bottom of the fuselage.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-364-3577 or 651-737-6501. Address correspondence to: 3M Aerospace and Aircraft Maintenance Division, 3M Center, Building 220-9W-14, St. Paul, MN 55144-1000. If you are outside of the US, please contact your nearest 3M office or branch.

Important Notices

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, negligence, warranty, or strict liability.

For Additional Product Safety and Health Information, see the Material Safety Datasheet.

3M

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