



Photonic Cleaning Technologies
1895 Short Lane, Bldg 1
P.O. Box 435
Platteville, WI 53818
608 770-7383

Document prepared 1 April 2007; rev 25 Feb 2008

Spray Formula First Contact™ Polymer Solution

Photonic Cleaning Technologies offers spray formula First Contact™ polymer solution which makes it easier than ever to use First Contact™ Polymer Solutions to treat, clean, and protect delicate surfaces. Spray application allows larger surfaces to be treated more quickly and practically than application with a brush. Spray application absolutely eliminates potential contact with the substrate and thus eliminates any chance of scratching the surface.

SPRAY APPLICATION of First Contact™ is easy and efficient. Pour spray formula First Contact™ into a spray container supplied by Photonic Cleaning Technologies, turn the spray head onto the bottle, and spray. It is that simple!

The suggested technique is to apply the spray in a vertical or horizontal pattern. Move the bottle across the surface while spraying to attain an even, thin coating of First Contact™ Polymer Solution.

A light first coat is especially important for vertical (up-and-down) and curved surfaces, the coating should dry in a matter of seconds. A light spray will dry before it runs and provide a base for somewhat heavier subsequent polymer application. Careful application can eliminate drips. If the coating of liquid First Contact™ Polymer Solution is too thick, it will run.

Repeat the application process several times. As a guide, spray application requires about 5 ml of product per 18-20 in² (115-130 cm²) of surface. This means solution applied to the surface, so account for overspray and add extra volume for the application. As with original First Contact™, it is necessary to create a thick, strong film that will peel off without tearing.

REMEMBER: First Contact™ is not a decorative coating. It does not matter if the polymer film looks good. All that matters is producing a good, strong film that will protect the surface and peel off in one piece.

For very large surfaces or highly repetitive coating, Spray Formula First Contact™ can be applied using air pressure spray guns. For information on this, see the technical bulletin on the **MSDS & Technical Information** page of www.PhotonicCleaning.com.

SPRAY BOTTLES: First Contact™ solvents, although environmentally friendly, are very powerful which means that most commercial spray heads will not operate for long when spraying First Contact™. Photonic Cleaning Technologies searched dozens of options and talked with several companies to find suitable spray heads which can last a long time with proper care.

There are two thumb pump mist sprayers for use on smaller surface areas. The small thumb sprayer bottle is easy to hold and the sprayer directs a small amount of polymer solution to a small target area. The small sprayer is best for surface areas up to about 1.5 feet² (1400 cm²).

The medium sprayer fits on our 8 ounce, 232 ml, bottle and directs a larger volume of liquid to a larger target area. This sprayer is suggested for areas up to 5 feet².

The large trigger spray head features a continuously adjustable spray nozzle which allows the user to change the target area and spray characteristics. The sprayer is designed to deliver 2.5 ml of solution per pull on the trigger handle. This is a large amount of liquid and requires good user technique to prevent drips on vertical surfaces. The large trigger sprayer is not recommended for any surface less than 5 feet², (0.46 m²) because it is difficult to control application of 2.5 ml sprays without many runs and drips on small surfaces. The trigger sprayer comes with a 16 ounce bottle and will cover quite large surface areas.

NOTE: The trigger spray head is designed to allow air into the bottle and will leak if left on its side or tipped to an extreme angle during use

NOTE: The trigger spray head should not be left on the bottle for long periods of time when the sprayer is not in use. To prevent evaporation of the solvents in the First Contact™ Solution always remove the trigger spray head and cap the bottle with the polycone cap provided when done using the bottle for the day.

HELP FOR CLOGGED TRIGGER SPRAY HEAD: The trigger spray head has proven to last for months. There are two common reasons it clogs which are easily remedied.

1. The spray insert may be covered with dry polymer film. Remove the spray adjustment nozzle and use a small piece of peel tab to clean off the spray insert, taking care to remove the dry polymer from the small hole in the center of the insert. Make sure the spray hole in the adjustment nozzle is free and clear as well.

2. There is a backflow prevention ball in the top of the spray head. This ball bearing may stick and prevent the spray head from working correctly. Check by removing the dip tube from the spray head and see if the ball bearing is moving freely. If it is not, try loosening with some First Contact™ Thinner solution, a wire or wooden stick to free the ball bearing in its chamber. When the ball bearing is moving freely, replace the dip tube and the spray head should work.

CLEAN UP is easy. Remove the spray head from the spray bottle and place the dip tube into a bottle of First Contact™ Thinner Solution. Clean by spraying until only thinner solution comes out of the spray head. Put the spray head aside, preferably in a closed plastic bag. This cleaning process prevents polymer from solidifying and clogging the spray head.

Close the spray bottle containing Spray Formula First Contact™ with the polycone cap provided with every bottle.

PREVENT CLOGGED SPRAY HEADS. Always cover the spray head when it is not in use. Place the plastic cap provided with the small and medium mist spray head over the spray head or cover the spray head with a plastic bag to prevent airflow and slow solvent evaporation. The plastic cap will crack with time, but the cap is adequate for the job as long as airflow to the spray head is inhibited.