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Pro-Lite Water-Based Barium Sulphate Coating: INSTRUCTIONS FOR USE

We normally expect to have to apply between 10-15 layers by spray painting to build up the paint thickness for maximum reflectance. There is a bit of an art to spray painting BaSO₄, some practice is required for best results.

The Pro-Lite paint is a water-based formulation, so it takes longer to dry between layers than an alcohol-based formulation. A typical application of 12-15 layers may take 5-6 hours to apply of which 95% of the time you are waiting for a coating layer to dry. This assumes that the atmospheric conditions are not too humid and some kind of forced air ventilation is used to accelerate the drying process.

As a layer dries, it changes colour. When wet, the paint is darker and as it dries it becomes lighter. When the layer has dried, the next layer can be sprayed on. If you don't see any colour difference between the underlying and new layers, you will have reached the optimum paint thickness and you can stop.

You can use the barium sulphate coating on metal, glass or plastic substrates. The surface must be free by fats, oils, or other contaminants. Areas which are not to be coated should be masked to prevent overspray. The finished coating consists of several layers, each layer has to be as thin as possible. The thickness of the finished coating is about 0.5mm. An increase of the coating thickness above 0.5mm will not increase the reflectivity of the surface.

Store an opened bottle of paint with the lid screwed on. Once opened, the barium sulphate paint has a limited shelf life which depends upon environmental factors.

USE OF ACCESSORY SPRAYERS

Decant the barium sulphate paint into the glass bottle and put the suction tube into the sprayer. Then turn the sprayer onto the bottle of glass. Turn the spray head in the same direction as the groove in the plastic cartridge (this is important for constant pressure operation) Press the spraying head at maintain a distanced of between 15 and 25cm to the surface to be painted. After use, the glass bottle can be cleaned in soap and water, or even put in dishwasher.