

Technical Data Sheet.

Permahyd[®] General Application Instructions for Water-Borne Products

This product is for professional painting of vehicles only.



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Substrate preparation

When applying water-borne products, the substrate must always be prepared with great care using only agents recommended for water-borne products.

Metal substrates should preferably be cleaned with Permahyd® Silicone Removers 7085, 7090 or 7095.

Clean sanded surfacer areas and old finishes with Permahyd® Silicone Removers 7085, 7090 or 7095 (see Data Sheet 770.2). Plastic surfaces must be carefully prepared in accordance with the System Data Sheet for painting plastics (see Data Sheet 901.1) and cleaned once more with Permahyd® Silicone Removers 7080, 7090 or 7095 before further recoating.

Masking

Use only waterproof masking tape and masking paper or plastic sheeting.

Spray guns/spray equipment

It is not advisable to use the same spray gun/spray equipment to alternately apply water-borne and conventional products. The components of spray guns/spray equipment coming into contact with water-borne products in the course of application must be made of a corrosion-resistant material (stainless steel).

Mixing containers

For mixing and adjusting the viscosity of water-borne products use only tins made of plastic or coated tinplate.

Material temperature

Since the viscosity and thus the application characteristics of water-borne products depend to a great extent on the material temperature, water-borne products must be at least 65°F (18°C) at the time of viscosity adjustment / application.

- Store at min. 65°F (18°C) or allow corresponding warming time before viscosity adjustment/application.

Minimum reaction temperature

When applying two pack water-borne products, the minimum reaction temperature given in the Technical Data Sheet must always be allowed for drying.

- See respective Product Data Sheet.

Maximum mixing temperature

If the maximum mixing temperature of two pack water-borne products is exceeded the pot life may be reduced by such an extent that application is no longer possible.

- See respective Product Data Sheet.
- Store correctly.
- Cool down before mixing if required.

Application

The application of water-borne products is influenced to a great extent by temperature and air humidity. This may restrict the application or make it even impossible unless certain conditions are fulfilled.

Assuming that in an up-to-date paint shop an application temperature of at least 68°F (20°C) is guaranteed, particular measures are required only with regard to the air humidity if it is outside the application range.

Measures if relative humidity of air is too high

Excessively high air humidity may cause color deviations, mottling of metallic colors and insufficient settling on upright surfaces. The following measures may be useful:

1. Increase temperature in the spray booth as far as acceptable for the staff.
2. Choose max. application viscosity given in Technical Data Sheet.

Measures if air humidity is too low

Inadequate air humidity may cause increased overspray and insufficient overspray absorption. The following measures may be useful:

1. Reduce application temperature if possible. Observe the minimum of 65°F/18°C.
2. Choose lowest possible application viscosity given in Technical Data Sheet.

Intermediate and final flash-off times, recoating times

When applying water-borne products, the flash-off times between individual coats and final flash-off or recoating times are adversely affected by low temperatures and high air humidity. The drying processes between the individual coats and before further recoating can be accelerated by:

1. Accelerated evacuation of moist air
 - * blow with air diffuser
 - * use Speed Dry air jet system
 - * increase air rate in the spray booth (Spray booths of recent design take account of this option.)
2. Use of drying energy
 - * IR
 - * combination booth
 - * oven

Important Regulatory Information

- **For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and MSDS precautions. If mixed with other components, mixture will have hazards of all components. Do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves.**
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