Permahyd®
1K Primer Surfacer 4100

GENERAL

DESCRIPTION
Permahyd® 1K Primer Surfacer 4100 is a gray waterborne primer surfacer used for spot repairs and for isolating 1K coatings to help prevent lifting. Permahyd 1K Primer Surfacer 4100 can be applied direct to metal. When used with air acceleration, IR or forced bake, it is ready to sand in 30 minutes or faster, providing a fast, quality repair.

Permahyd 1K Primer Surfacer 4100 is simple to apply, and at a V.O.C of 0.7 pounds per gallon, meets the most stringent regulations in North America.

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.

MIXING

COMPONENTS
Permahyd 1K Primer Surfacer 4100
Permahyd VE 6000 Water

MIX RATIO
Spot Repair & Panel Repair
Component Volume
4100 1
VE 6000 Water 5-10%

Wet-on-Wet, Single Panel
Component Volume
4100 1
VE 6000 Water 10-15%

APPLICATION VISCOSITY
Spot Repair & Panel Repair
23 – 28 seconds at 4mm, 68°F/20°C, DIN 4

Wet-on-Wet, Single Panel
18 – 20 seconds at 4mm, 68°F/20°C, DIN 4

POT LIFE
Unlimited

SPECIAL TIPS
- Spraying equipment must be suitable for the application of waterborne products; manufacturer’s instructions must be followed. For further information, please refer to VR Technical Data Sheet No. 905.1.
- Rinse the spray equipment with Permahyd VE Water 6000 before and after use. For further information, please refer to VR Technical Data Sheet No. 905.0.
- Liquid waste from waterborne products must be collected separately from conventional liquid paint waste. If mixed, disposal may be impossible, and in any case more difficult and consequently more expensive. For further information, please refer to VR Technical Data Sheet No. 905.2.
- The use of a Sata Mini Jet or equivalent is ideal for small areas and break through areas.
- Not recommended for use as an etch primer to meet OEM warranty requirements
For maximum corrosion protection use Spies Hecker® 2K EP Primer Aerosol 4085 (TDS 300.8.) on all bare metal. Large areas of bare metal must be pre-primed.

- Keep from freezing.
- Storage Conditions: Store free of frost! Storage temperature between 41°F/5°C and 95°F/35°C. Temperatures above or below this range lead to loss of product quality.

APPLICATION

SUBSTRATES
- Bare steel, sanded (See Special Tips)
- Zinc-coated steel or aluminum, sanded
- Sanded, solvent resistant OEM primers used on replacement parts
- Polyester products
- 2K fillers, sanded
- Through-hardened, sanded paintwork

SUBSTRATE PRETREATMENT
- Degrease and sand.
- Prior to applying a sanding surferce, sand body filler with P180 or finer grit sandpaper and/or sand feather edge areas with P180, then P240, and finish with P320.
- Before further treatment, clean all substrates thoroughly with:
  - Permaloid® Silicone Removers 7087 or 7010 Slow, Permahyd Silicone Removers 7085, 7086 or 7096.
  - Axalta™ Silicone Remover 200 Slow, Axalta Silicone Remover 205A Spray, Axalta Silicone Remover 210 Water or Axalta Silicone Remover 220 Low VOC.

SPRAYGUN SETUP

Spot Repair & Panel Repair
- HVLP 1.4-1.5mm
- Approved Transfer Efficiency 1.3-1.4mm

Wet-on-Wet, Single Panel
- HVLP 1.3-1.5mm
- Approved Transfer Efficiency 1.2-1.3mm

Please refer to gun manufacturer and local legislation for proper spray pressure recommendations.

APPLICATION

Spot Repair & Panel Repair
- 2 – 4 coats allow for adequate flash between coats

Wet-on-Wet, Single Panel
- 1.5 coats, 1.0 to 1.4 mils.

RECOMMENDED FILM THICKNESS

Spot Repair & Panel Repair
- 2.0 – 5.0 mils dry film thickness

Wet-on-Wet, Single Panel
- A minimum of 2.0 mils dry film thickness is required.
DRY TIMES
Flash-off at 68°F/20°C for 10-15 minutes
It is important to note flash-off time depends on the temperature, humidity and air flow in the spray booth. Accelerated air flow will dramatically reduce time to dry to sand or recoating.

AIR DRY
At 68°F/20°C:
Recoat: after 60 minutes
Sand: approximately 3 hours

LOW BAKE
Flash-off time: approximately 5 minutes at 68°F/20°C
Drying time and temperature: approximately 30 minutes at 140°F/60°C metal temperature.

INFRARED
Flash-off time: approximately 5 minutes at 68°F/20°C
Drying time – Short Wave: 5 minutes at 50% power and then 10 minutes at 100% power
Drying time – Medium Wave: 20 minutes

Recoat with Permacron®, Permahyd Topcoats (examples: Permacron Base Coat Series 293/295, Permahyd Hi-TEC

PHYSICAL PROPERTIES
Coating Category: Primer
Max. VOC (AP): 73 g/l; 0.6 lbs/gal
Max. VOC (LE): 170 g/l; 1.4 lbs/gal
Avg. Gallon Weight: 1337 g/l; 11.16 lbs/gal
Avg. Weight % Volatiles: 48.1%
Avg. Weight % Water: 42.6%
Avg. Weight % Exempt Solvent: 0.0%
Avg. Volume % Water: 56.8%
Avg. Volume % Exempt Solvent: 0.0%

VOC REGULATED AREAS
These directions refer to the use of products which may be restricted or require special mixing instructions in VOC regulated areas. Follow mixing usage and recommendations in the VOC Compliant Products Chart for your area.

SAFETY AND HANDLING
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 SDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

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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