

2K PU HS Primer

A two-component polyurethane filler primer

A two component (2K), high solids, high performance polyurethane acrylic filler formulated with zinc phosphate anti-corrosive pigments to protect against corrosion.

Intended uses:

2K PU HS Primer is designed for automotive, truck & industry body re-finishing & new work as a high-performance filler primer, prior to application of polyurethane finish coats.

Properties:

- Easy to use, two component product that is spray applied.
- Fast drying, even at low temperatures.
- Excellent sand-ability & provides an ultra-smooth surface for topcoat application.
- Low topcoat absorption.
- Good weathering & corrosion resistance.
- Excellent adhesion direct to steel, stainless steel, aluminium & light alloys, galvanized steel, old coatings & polyester bodyfillers.
- Excellent hiding power.
- Excellent film build for hiding minor surface defects.
- Very good elasticity.

Technical Data

Colour	Standard white, grey, or beige. Other colours available on request.
Components	2
Mixing Ratio (Volume)	4 : 1
Density	1.5– 1.6 Kg/ Litre (Depending on colour)
Volume Solids	50% (Depending on colour)
Typical Film Thickness	30 – 50µm dry, wet on wet system. 100 – 120, dry on dry system.
Typical Spreading Rate	6,25 m ² /Litre at 80µm DFT
Method of Application	Spray
Flash Point	22°C
Number of Coats	Check application section

Drying Information:

	0°C	5°C	15°C	20°C	40°C	60°C
Dust Free	-	-	-	15 – 20 min	-	-
Tack Free Handling	-	-	-	40 – 60 min	-	-
Sanding	-	-	-	4 hrs	-	30 min
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	4 hrs*	-	-
Maximum	Extended*					

* Minimum of 4 hrs when overcoating with a coating other than itself. If overcoating with itself “wet on wet”, 30 minutes of air drying at 20°C is suitable.

* Adhesive taps can be applied after 60 minutes.

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Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be cleaned and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2019

Steel

Sandblast to 30 – 40 µm or dry sand with P80-100 abrasive paper & degrease with Hydrosolve degreaser or AEROCLEAN Silicone Remover.

Stainless Steel

Dry sand with P180 abrasive paper & degrease with Hydrosolve Degreaser or AEROCLEAN Silicone Remover.

Aluminium, Light Alloys & Galvanizing

Dry sand with P360 – 400 abrasive paper & degrease with Hydrosolve Degreaser or AEROCLEAN Silicone Remover.

Where bodyfiller is exposed, avoid contact with water & degreaser.

Application:

Mixing	Base component is supplied in one full container. It needs to be mixed with 2K PU HS Hardener Fast (4 Parts base to 1 Part Hardener). Always mix according to specified mixing ratio. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the 2K PU HS Hardener Fast. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity. Too much solvent results in reduced sag resistance and slower cure. Thinner should be added after mixing both components.		
Pot Life	3 Hour @ 20°C.		
Thinner	PU Thinner	0 - 100% depending on application. Typical application viscosity is between 18 - 22 seconds Ford 4 @ 25°C.	
Air Spray	Recommended	Gun	Pressure/Gravity Feed
		Fluid Tip	1.3 mm to 1.4 mm for low build 1.6 mm to 1.8 mm for high build
Method	Wet on Wet System Apply 1 full coat over the whole area or Apply 1 thin coat, followed by 1 full coat.		
	Dry on Dry System Apply 2 - 3 coats, flash off for 5 - 7 minutes between coats.		
	Sanding Dry sanding with P400 abrasive paper. Wet sanding with P600 - 800 abrasive paper.		
Work Stoppage	Thoroughly flush all equipment with Lacquer Thinner A . All unused material should be stored in tightly closed containers. Partially filled containers may show surface		

	skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before being used.
Clean Up	Clean all equipment immediately after use with Lacquer Thinner A . It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	10°C	No Lower Limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point.

Limitations:

- In the case of drying at temperatures below 60°C, when the full hardness of the film is not yet achieved, aggressive conditions (washing, rain, heavy humidity, condensation, dew and smog, detergents etc.) should be avoided.
- This product is not recommended for use in continuous immersion conditions.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 litre & 20 litre kits

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.