



DRIVING SURFACE PERFECTION™

# RAPID SYSTEM PRIMER



TECHNICAL DATA SHEET

4:1:1 2K HIGH SOLIDS RAPID CURE PRIMER

## TECHNICAL DATA SHEET & PROCESS GUIDE

**Rapid System Primer** with unique new Rapid Cure Technology cures in a fraction of the time versus conventional primers. Ready to sand in less than 1 hour, it's easy to use and features excellent hiding capabilities for a high quality uniform foundation prior to color coating. Use with other **Rapid System** products to increase job throughput from start to finish.

- Fast air dry finish saves time and energy costs
- Excellent opacity and coverage and easy sanding
- Only one hardener required for all climates and conditions, reducing your stock investment
- Excellent surface levelling properties
- Air dries in less than 1 hour @ 70°F

Available Colors            Gray

## TECHNICAL DATA

### Substrates



- Original Paint
- Aluminum\*
- Zinc or Galvanized\*
- Mild Steel
- SMC
- E-coat
- U-POL Polyester Fillers

*\*Priming with **ACID#8 Acid Etch Primer Aerosol** is recommended for these substrates*

	Base	Mixed
Viscosity		25 - 30 s/ DIN 4
Solid content	73.70%	62.70%
Specific gravity g/cm <sup>3</sup>	1.70	1.44

## APPLICATION GUIDE



### Tools Required

- HVLP Gravity Gun
- 180-320 Grit Sandpaper
- U-POL System 20 Degreaser (UP2002, UP2012, UP2022)



### Substrate Preparation

	Bare Steel	Aluminum*	Galvanized*	Original Paint	Body Filler	GRP, SMC, Fiberglass
	UP2012, UP2022	UP2012, UP2022	UP2012, UP2022	UP2012, UP2022		UP2002
	P180	P180	P180	Dry Sand P220-320	Dry Sand P220	P220

*\*Priming with **ACID#8 Acid Etch Primer Aerosol** is recommended after abrading for these substrates*

**For best results, good preparation is essential:** Clean and degrease removing dirt, oil, grease and wax with a cleaning solution, like **U-POL SYSTEM 20 Solvent Based Degreaser** (UP2012, UP2022) or **Water Based Degreaser** (UP2002).



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## Mixing Ratio

Rapid Primer : Rapid Activator : Rapid Reducer

## Primer Surfacer

4:1:1 parts by volume

Final Volume	Weight of Primer	Weight of Activator	Weight of Reducer
250ml	283.2g	40.4g	35.9g
500ml	566.4g	80.8g	71.8g
750ml	849.6g	121.2g	107.7g
1000ml	1132.8g	161.6g	143.6g

## Activator Selection

**Rapid System Primer is only compatible with Rapid System Primer Activator and Rapid System Fast Reducer**

Temperature °F	Activator	Reducer
60-85°F	Rapid System Primer Activator	Rapid System Fast Reducer

Rapid System Primer can be tinted with solvent based urethane basecoat toner. It is not recommended to use water based toners to tint **Rapid System Primer**.



## Viscosity DIN 4 / sec

25-30

Working Pot-Life @ 70°F

45-60 mins



## Compliant HVLV Gravity Gun

Gun tip size

1.6 - 1.8mm

Air Pressure at the gun

25 - 29 PSI



## Coats

2-3 wet coats

Build / MIL

2.95 - 3.95 total dry film thickness

Coverage approx. ft<sup>2</sup>/gallon\*

285

\* Theoretical Coverage per ready to spray gallon assuming 100% transfer efficiency and giving the dry film thickness between indicated values. Approximate.



## Flash-off @ 70°F

Between coats

10 mins

Before forced drying

15 mins



## Drying Times

Air Drying

Dust free @ 70°F

20 mins

Sandable @ 70°F

55 mins

Forced Drying

Sandable @ 140°F\*

10 mins

\* Panel temperature

IR

10 minutes at 20" with a power setting to achieve panel temperature of 140°F



## Sanding

Dry Sanding / Abrasive

P400-P600

Wet Sanding / Abrasive

P600-P800

Carefully sand out minor imperfections with P500

## Over Painting



**Rapid System Primer** can be directly top-coated with most solvent and water-based basecoats or solid colors



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## STORAGE & VOC INFORMATION



**Shelf Life** 2 years from date of manufacture in sealed original containers.

**Recommended Storage Temperature** 40°F - 75°F

**Recommended Application Temperature** 60°F - 85°F

**Equipment Cleaning** Clean gun Immediately after use with Rapid System Primer Reducer, SYSTEM 20 reducer or gunwash.

**Important Remarks** Do not use activated product beyond pot life.

Activated material should not be returned to the original can of non-activated material.



	As Packaged		As Applied when mixed at 4:1:1 with Rapid System Primer Activator and Rapid System Primer Reducer	
<b>VOC Regulatory</b>	453 g/l	3.78 lbs/gal	540g/l	4.48lbs/gal
<b>VOC Actual</b>	453 g/l	3.78 lbs/gal	540g/l	4.48lbs/gal
<b>Volatiles</b>	26.3%		37.2%	
<b>Density</b>	1724 g/l	14.4 lbs/gal	1454g/l	12.07lbs/gal

### REORDER CODE

Order Code	Size	Product
UP6301	1 US Quart Tin	Gray Primer
UP6303	1 US Gallon Tin	Gray Primer
UP6425	250 ml Tin	Activator
UP6401	1L Tin	Activator
UP6701	1L Tin	Reducer

### IMPORTANT: FOR PROFESSIONAL USE ONLY. Read full instructions before use.

This product contains hazardous materials and therefore appropriate personal protective equipment should always be used. Please refer to the label and consult the safety data sheet for full handling instructions and personal protection information. U-POL disclaims any liability where the user does not wear the recommended personal protective equipment. The above data is for information only and may change without prior notice. It is the Buyers responsibility to ensure the suitability of the products for their own use and check the information is up to date. The recommendation of use of our products and application in our technical data sheets are based on our knowledge and experience. These data sheets are available via your local distributor or via the U-POL website at WWW.U-POL.COM. U-POL is not responsible for the results obtained by others over whose methods we have no control and thereof U-POL is not liable for consequential or incidental damages including loss of profits.

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