

PICTOGRAPH



Cleaning



Dry Sanding by Machine



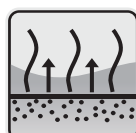
Mixing Ratio



Ready for Use



NO.of Coats



Flash-Off Time



Application Viscosity



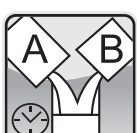
Gravity Feed Spray Gun



Suction Feed Spray Gun



Re-Coat



Pot Life



Wet Sanding by Hand



Drying Time



Use Dipstick

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Topcoat

Single - Stage Solid Topcoat

Product Description


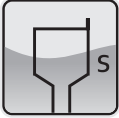




Double component solid colors for repairing automotive finishes.

Technical Characteristics

Color: mixing system Shelf life: at 25°C Theoretical spreading rate: 260 m²/l (avg) at 1 µm

Pre-treatment

Wet flat with P600 - 800 grade paper or dry flat with P400 - 500 grade paper.
 Degrease with UPO - 3910
 Wash off residues and dry thoroughly.
 Re-clean with UPO - 3910 The use of a tack rag is recommended.

 <p>Mixing Ratio</p>	<p>Stir well before use. Twice per day for 15 mins on the mixing machine.</p> <p>UP - C 2K Solid Colors 100 (vol) depending on color</p> <p>UPH - 3600 Hardener 50 (vol)</p> <p>UPR - 1 Thinner 20 - 30 (vol)</p> <p>Mix well and strain before application.</p> <p>Note: UPH - 3500 / UPR - 5 is for temperatures between 15°C</p> <p>UPH - 3600 / UPR - 1 is for temperatures between 5°C - 25°C</p> <p>UPH - 3700 / UPR - 2 is for temperatures above 25°C</p> <p>UPR - 3 Thinner is for temperatures above 35°C or when refinishing large surfaces.</p>												
 <p>Spray Viscosity Potlife</p>	<p>14 to 19 seconds DIN 4 cup at 25°C</p> <p>3 - 4 hours at 25°C</p>												
 <p>Sprayguns</p>	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.8 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
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Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm										
 <p>Application</p>	<p>Apply topcoat over original stoved finishes or over UPP - 3441 grey primers</p> <p>Number of spraycoats: 1 half wet + 1 wet coat</p> <p>Flash - off: 10 mins</p> <p>Film thickness: 40 - 50 µm</p>												
 <p>Drying</p>	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>20 mins</td> <td>5 mins</td> </tr> <tr> <td>Ready for assembly after</td> <td>6 hours</td> <td>30 mins</td> </tr> <tr> <td>Ready for polish after</td> <td>24 hours</td> <td>75 - 110 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	20 mins	5 mins	Ready for assembly after	6 hours	30 mins	Ready for polish after	24 hours	75 - 110 mins
Drying	25°C	60°C											
Dust free after	20 mins	5 mins											
Ready for assembly after	6 hours	30 mins											
Ready for polish after	24 hours	75 - 110 mins											
 <p>IR Drying</p>	<p>IR drying after flash-off time:</p> <p>Step 1 - short wave: 5 mins at a 80 cm distance</p> <p>Step 2 - medium wave: 20 mins at a 80 cm distance</p>												
<p>Further Treatment</p>	<p>Polish after specified drying times and cooling.</p>												

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Basecoat 2c

2 - Stage Solid Colors

Product Description






Single component solid colors for repairing automotive 2 - stage finishes.

Technical Characteristics

Color: mixing system Shelf life: 48 months at 25°C Theoretical spreading rate: 120m² /l (avg) at 1 µm

Pre-treatment

Wet flat with P800 - 1000 grade paper or dry flat with P600 - 800 grade paper.
 Degrease with UPO - 3910.
 Wash off residues and dry thoroughly.
 Re - clean with UPO - 3910 The use of a tack rag is recommended.

 <p>Mixing Ratio</p>	<p>Stir well before use. Twice per day for 15 mins on the mixing machine.</p> <p>UP - B 1K Solid Colors 100 (vol) depending on color</p> <p>UPR - 5 (5°C - 15°C)</p> <p>UPR - 1 (15°C - 25°C)</p> <p>UPR - 2 (25°C - 35°C)</p> <p>UPR - 3 (>35°C) 110 - 120(vol)</p> <p>Mix well and strain before application.</p>								
 <p>Spray Viscosity Potlife</p>	<p>14 to 19 seconds DIN 4 cup at 25°C 24 hours at 25°C</p>								
 <p>Sprayguns</p>	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.8 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm						
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm						
 <p>Application</p>	<p>Apply basecoat over original stoved finishes or over UPP - 3441 / UPP - 3450 grey primers.</p> <p>Number of spraycoats: 1 half wet + 1 wet coat</p> <p>Flash-off: 5 - 10 mins</p> <p>Film thickness: 15 - 25 µm</p>								
 <p>Drying</p>	<p>Drying at 25°C: 5 mins</p> <p>Drying at 60°C: -</p>								
<p>Further Treatment</p>	<p>After the flash-off, apply Universal Auto Color Plus clear coat wet on wet.</p>								

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Basecoat 2c

2 - Stage Metallic Colors (Aluminum/Pearl/Xirallic)

Product Description


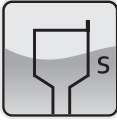



Single component metallic colors for repairing automotive 2 - stage finishes.

Technical Characteristics

Color: mixing system Shelf life: 48 months at 25°C Theoretical spreading rate: 120m² /l (avg) at 1 µm

Pre-treatment

Wet flat with P800 - 1000 grade paper or dry flat with P600 - 800 grade paper.
 Degrease with UPO 3910
 Wash off residues and dry thoroughly.
 Re - clean with UPO 3910 The use of a tack rag is recommended.

	Mixing Ratio	<p>Stir well before use. Twice per day for 15 mins on the mixing machine.</p> <table border="0"> <tr> <td>UP - M / UP - P / UP - P / UP - PC - Metallic Colors</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPR - 5 (5°C - 15°C)</td> <td></td> <td></td> </tr> <tr> <td>UPR - 1 (15°C - 25°C)</td> <td>100 - 120 (vol)</td> <td>100 - 110 g</td> </tr> <tr> <td>UPR - 2 (25°C - 35°C)</td> <td></td> <td></td> </tr> <tr> <td>UPR - 3 (>35°C)</td> <td></td> <td></td> </tr> </table> <p>Mix well and strain before application.</p>	UP - M / UP - P / UP - P / UP - PC - Metallic Colors	100 (vol)	100 g	UPR - 5 (5°C - 15°C)			UPR - 1 (15°C - 25°C)	100 - 120 (vol)	100 - 110 g	UPR - 2 (25°C - 35°C)			UPR - 3 (>35°C)		
UP - M / UP - P / UP - P / UP - PC - Metallic Colors	100 (vol)	100 g															
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UPR - 1 (15°C - 25°C)	100 - 120 (vol)	100 - 110 g															
UPR - 2 (25°C - 35°C)																	
UPR - 3 (>35°C)																	
	Spray Viscosity Potlife	<p>14 to 19 seconds DIN 4 cup at 25°C 24 hours at 25°C</p>															
	Sprayguns	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.8 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm							
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm														
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm														
	Application	<p>Apply basecoat over original stoved finishes or over UPP - 3441 / UPP - 3450 grey primers.</p> <p>Number of spraycoats: 1 thin + 1 wet coat + 1 mist coat to match effect</p> <p>Flash-off: 3 mins with spraygun-cooling; 5 mins</p> <p>Note: Before mist coat, enlarge the spray fan and adjust spraying pressure & distance to be:</p> <table border="0"> <tr> <td>2.0 bar (HVLP)</td> <td>10 - 15 cm</td> </tr> <tr> <td>3.5 bar (Conventional)</td> <td>20 - 25 cm</td> </tr> </table> <p>Film thickness: 15 - 25 µm</p>	2.0 bar (HVLP)	10 - 15 cm	3.5 bar (Conventional)	20 - 25 cm											
2.0 bar (HVLP)	10 - 15 cm																
3.5 bar (Conventional)	20 - 25 cm																
	Drying	<p>Drying at 25°C: 5 mins Drying at 60°C: -</p>															
Further Treatment		<p>After the flash-off, apply Universal Auto Color Plus clear coat wet on wet.</p>															

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Basecoat 2c

2 - Stage Red Pearl

Product Description

Single component basecoat for repairing automotive 2 - stage finishes.

Technical Characteristics

Color: mixing system Shelf life: 48 months at 25°C Theoretical spreading rate: 120m² /l (avg) at 1 µm

Pre-treatment

Phase 1

Wet flat with P800 - 1000 grade paper or dry flat with P600 - 800 grade paper.

Degrease with UPO - 3910






Wash off residues and dry thoroughly.

Re-clean with UPO - 3910 The use of a tack rag is recommended.

Phase 2 (Optional)

Apply one thin layer of UP-B100 / solid colors that are close to red pearl; after one min's flash-off, apply one more wet layer of the same color.

Flash off for 5 mins.

	Mixing Ratio	<p>Stir well before use. Twice per day for 15 mins on the mixing machine.</p> <table border="0"> <tr> <td>UP - P Red Pearl</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPR - 5 (5°C - 15°C)</td> <td></td> <td></td> </tr> <tr> <td>UPR - 1 (15°C - 25°C)</td> <td></td> <td></td> </tr> <tr> <td>UPR - 2 (25°C - 35°C)</td> <td></td> <td></td> </tr> <tr> <td>UPR - 3 (>35°C)</td> <td>110 - 120 (vol)</td> <td>100 - 110 g</td> </tr> </table> <p>Mix well and strain before application.</p>	UP - P Red Pearl	100 (vol)	100 g	UPR - 5 (5°C - 15°C)			UPR - 1 (15°C - 25°C)			UPR - 2 (25°C - 35°C)			UPR - 3 (>35°C)	110 - 120 (vol)	100 - 110 g
UP - P Red Pearl	100 (vol)	100 g															
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	Spray Viscosity Potlife	<p>14 to 19 seconds DIN 4 cup at 25°C 24 hours at 25°C</p>															
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HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm														
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm														
	Application	<p>Apply basecoat over original stoved finishes or over UPP - 3441 / UPP - 3450 grey primers.</p> <p>Number of spraycoats: 1 thin + 1 wet coat + 1 mist coat to match effect</p> <p>Flash-off: 3 mins with spraygun-cooling; 5 mins</p> <p>Note: Before mist coat, enlarge the spray fan and adjust spraying pressure & distance to be:</p> <table border="0"> <tr> <td>2.0 bar (HVLP)</td> <td>10 - 15 cm</td> </tr> <tr> <td>3.5 bar (Conventional)</td> <td>20 - 25 cm</td> </tr> </table> <p>Film thickness: 15 - 20 µm</p>	2.0 bar (HVLP)	10 - 15 cm	3.5 bar (Conventional)	20 - 25 cm											
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	Drying	<p>Drying at 25°C: 5 mins Drying at 60°C: -</p>															
Further Treatment		<p>After the flash-off, apply Universal Auto Color Plus clear coat wet on wet.</p>															

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Xirallic/Pearlescent Basecoat 3c

3 - Stage Single Component Xirallic/Pearl Colors

Product Description

Single component basecoat with xirallic/pearl effect for repairing automotive 3 - stage finishes.

Technical Characteristics

Color: mixing system Shelf life: 48 months at 25°C Theoretical spreading rate: 120m² /l (avg) at 1 μm

Pre-treatment

Wet flat with P800 - 1000 grade paper or dry flat with P600 - 800 grade paper.
 Degrease with UPO - 3910.
 Wash off residues and dry thoroughly.
 Re-clean with UPO - 3910 The use of a tack rag is recommended.

	<p>Mixing Ratio</p>	<p>Stir well before use. Twice per day for 15 mins on the mixing machine.</p> <p>Step 1: UP - B 1K Solid Colors 100 (vol) depending on color</p> <p>UPR - 5 (5°C - 15°C) UPR - 1 (15°C - 25°C) UPR - 2 (25°C - 35°C) UPR - 3 (>35°C) 110 - 120 (vol)</p> <p>Mix well and strain before application.</p>																
	<p>Spray Viscosity Potlife</p>	<p>Step 2: RX-XI/RZ-X/RZ-P Xirallic/Pearl Colors 100 (vol) 100g</p> <p>UPR - 5 (5°C - 15°C) UPR - 1 (15°C - 25°C) UPR - 2 (25°C - 35°C) UPR - 3 (>35°C) 110 – 120 (vol) 100 - 110 g</p> <p>Mix well and strain before application.</p>																
	<p>Sprayguns</p>	<p>14 to 19 seconds DIN 4 cup at 25°C Step 1: 24 hours at 25°C Step 2: 24 hours at 25°C</p> <table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.8 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.8 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm								
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Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm															
	<p>Application</p>	<p>Apply basecoat over original stoved finishes or over UPP - 3441 / UPP - 3450 grey primers.</p> <table border="0"> <tr> <td></td> <td>Step 1</td> <td>Step 2</td> </tr> <tr> <td>Number of spraycoats:</td> <td>1 thin + 1 wet coat</td> <td>1 wet + 1 mist coat to match effect</td> </tr> <tr> <td>Film thickness:</td> <td>15 μm</td> <td>15 - 25 μm</td> </tr> <tr> <td>Flash - off:</td> <td colspan="2">3 mins with spraygun-cooling; 5 mins.</td> </tr> </table> <p>Note: Before Step 2 mist coat, enlarge the spray fan and adjust spraying pressure & distance to be:</p> <table border="0"> <tr> <td>2.0 bar (HVLP)</td> <td>10 - 15 cm</td> </tr> <tr> <td>3.5 bar (Conventional)</td> <td>20 - 25 cm</td> </tr> </table>		Step 1	Step 2	Number of spraycoats:	1 thin + 1 wet coat	1 wet + 1 mist coat to match effect	Film thickness:	15 μm	15 - 25 μm	Flash - off:	3 mins with spraygun-cooling; 5 mins.		2.0 bar (HVLP)	10 - 15 cm	3.5 bar (Conventional)	20 - 25 cm
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2.0 bar (HVLP)	10 - 15 cm																	
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	<p>Drying</p>	<p>Drying at 25°C: 5 mins Drying at 60°C: -</p>																
<p>Further Treatment</p>		<p>After the flash-off, apply Universal Auto Color Plus clear coat wet on wet.</p>																

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Binders

UP - 3520 Binder for Basecoat Color Preparation

Product Description


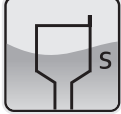


Binder for Universal Auto Color Plus basecoats. Improves leveling and enhances orientation of aluminum and pearl particles.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C

Pre-treatment

See process described in **TDS of Universal Auto Color Plus Basecoat – Solid Basecoat 2c, Metallic Colors 2c, Red Pearl 2c, Xirallic / Pearlescent Basecoat 3c.**

 <p>Mixing Ratio</p>	<p>Stir well before use.</p> <table border="0"> <thead> <tr> <th></th> <th></th> <th style="text-align: center;">UP - 3520</th> <th style="text-align: center;">UP - 3530</th> </tr> </thead> <tbody> <tr> <td>UP - B 1K Solid Basecoat</td> <td>100 g:</td> <td style="text-align: center;">10 g</td> <td style="text-align: center;">/</td> </tr> <tr> <td>UP - M Coarse Alu.</td> <td>100 g:</td> <td style="text-align: center;">15 g</td> <td style="text-align: center;">0 - 10 g</td> </tr> <tr> <td style="padding-left: 20px;">Fine Alu.</td> <td>100 g:</td> <td style="text-align: center;">20 g</td> <td style="text-align: center;">0 - 10 g</td> </tr> <tr> <td>UP - P / UP - P / UP - PC - stage Pearl</td> <td>100 g:</td> <td style="text-align: center;">50 - 70 g</td> <td style="text-align: center;">-</td> </tr> <tr> <td>P</td> <td>100 g:</td> <td style="text-align: center;">10 g</td> <td style="text-align: center;">-</td> </tr> </tbody> </table> <p>* UP - 3530 Flip Controller may be added to ensure better results for aluminum and pearl colors as well as for colors with an aluminum mixing base content of at least 75%. Note: UP - 3520 should NOT be mixed into poor-covering 1K paint. Strain before application.</p>			UP - 3520	UP - 3530	UP - B 1K Solid Basecoat	100 g:	10 g	/	UP - M Coarse Alu.	100 g:	15 g	0 - 10 g	Fine Alu.	100 g:	20 g	0 - 10 g	UP - P / UP - P / UP - PC - stage Pearl	100 g:	50 - 70 g	-	P	100 g:	10 g	-
		UP - 3520	UP - 3530																						
UP - B 1K Solid Basecoat	100 g:	10 g	/																						
UP - M Coarse Alu.	100 g:	15 g	0 - 10 g																						
Fine Alu.	100 g:	20 g	0 - 10 g																						
UP - P / UP - P / UP - PC - stage Pearl	100 g:	50 - 70 g	-																						
P	100 g:	10 g	-																						
 <p>Spray Viscosity Potlife</p>	<p>14 to 19 seconds DIN 4 cup at 25°C</p>																								
 <p>Application</p>	<p>See process described in TDS of Universal Auto Color Plus Basecoat</p>																								
 <p>Drying</p>	<p>See process described in TDS of Universal Auto Color Plus Basecoat</p>																								
<p>Further Treatment</p>	<p>See process described in TDS of Universal Auto Color Plus Basecoat</p>																								

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Binders

UP - 3522 Balance Binder for Basecoat Color Preparation

Product Description


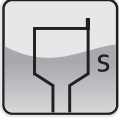


Binder for Universal Auto Color Plus basecoats. Improves leveling and enhances orientation of aluminum and pearl particles. When UP - 3522 used in grey metallic colors, it can enhance the sprayed effect.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C

Pre-treatment

See process described in TDS of Universal Auto Color Plus Basecoat – Solid Basecoat 2c, Metallic Colors 2c, Red Pearl 2c, Xirallic / Pearlescent Basecoat 3c.

	Mixing Ratio	<p>Stir well before use.</p> <table border="0"> <tr> <td></td> <td></td> <td style="text-align: right;">RZ-S160</td> </tr> <tr> <td>UP - B 1K Solid Basecoat</td> <td>100 g:</td> <td>5-8 g</td> </tr> <tr> <td>UP - M Coarse Alu.</td> <td>100 g:</td> <td>5-8 g</td> </tr> <tr> <td style="padding-left: 20px;">Fine Alu.</td> <td>100 g:</td> <td>5-8 g</td> </tr> <tr> <td>UP - P Pearl</td> <td>100 g:</td> <td>5-8 g</td> </tr> </table> <p>Note: UP - 3522 can prevent the metallic color with cloudy phenomenon and get a perfect flake control in metallics.</p>			RZ-S160	UP - B 1K Solid Basecoat	100 g:	5-8 g	UP - M Coarse Alu.	100 g:	5-8 g	Fine Alu.	100 g:	5-8 g	UP - P Pearl	100 g:	5-8 g
		RZ-S160															
UP - B 1K Solid Basecoat	100 g:	5-8 g															
UP - M Coarse Alu.	100 g:	5-8 g															
Fine Alu.	100 g:	5-8 g															
UP - P Pearl	100 g:	5-8 g															
	Spray Viscosity Potlife	14 to 19 seconds DIN 4 cup															
	Application	See process described in TDS of Universal Auto Color Plus Basecoat															
	Drying	See process described in TDS of Universal Auto Color Plus Basecoat															

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Basecoat

UP - 3530 Flip Controller – Aluminum/Pearl Effect-Adjusting Agent

Product Description


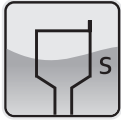


UP -3530 is developed for Universal Auto Color Plus aluminum colors to give silver toners a flash-like effect. Used to lighten up the side face and darken the front face of aluminum flakes.

Technical Characteristics

Color: Milky Shelf life: 24 months at 25°C

Pre-treatment

See process described in **TDS of Universal Auto Color Plus Basecoat - Solid Basecoat 2c, Metallic Colors 2c, Red Pearl 2c, Xirallic / Pearlescent Basecoat 3c.**

 Mixing Ratio	Stir well before use.			
			RZ-E100	RZ-S190
	UP - M Coarse Alu.	100 g:	15 g	0-10 g
	Fine Alu.	100 g:	20 g	0-10 g
	UP - P 3-stage Pearl	100 g:	50-70 g	-
	2-stage Pearl	100 g:	10 g	-
	*UP - 3530 Flip Controller may be added to ensure better results for aluminum and pearl colors as well as for colors with an aluminum mixing base content of at least 75%. Strain before application.			
 Spray Viscosity Potlife	14 to 19 seconds DIN 4 cup at 25°C			
 Application	See process described in TDS of Universal Auto Color Plus Basecoat			
 Drying	See process described in TDS of Universal Auto Color Plus Basecoat			
Further Treatment	See process described in TDS of Universal Auto Color Plus Basecoat			

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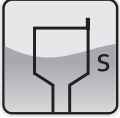


Binders

UP - 3510 Binder for Topcoat Color Preparation

Product Description
 Binder added into UP - C 2K solid colors to improve the gloss of the paint film.

Technical Characteristics
 Color: transparent Shelf life: 24 months at 25°C

Pre-treatment
 See process described in **TDS of Universal Auto Color Plus Solid Topcoats**

 <p>Mixing Ratio</p>	<p>Stir well before use.</p> <table border="0"> <tr> <td>UP - C 2K Solids</td> <td>100 g</td> </tr> <tr> <td>UP - 3510</td> <td>15 g</td> </tr> </table> <p>Note: UP - 3510 should NOT be mixed into 1K paint or transparent 2K paint. Strain before application.</p>	UP - C 2K Solids	100 g	UP - 3510	15 g
UP - C 2K Solids	100 g				
UP - 3510	15 g				
 <p>Spray Viscosity</p>	<p>14 to 19 seconds DIN 4 cup at 25°C</p>				
 <p>Application</p>	<p>See process described in TDS of Universal Auto Color Plus Solid Topcoats.</p>				
 <p>Drying</p>	<p>See process described in TDS of Universal Auto Color Plus Solid Topcoats.</p>				
<p>Further Treatment</p>	<p>See process described in TDS of Universal Auto Color Plus Solid Topcoats.</p>				

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Topcoat

UPO - 3940 Matting Agent

Product Description




Matting agent which allows reducing the gloss level of Universal Auto Color Plus UP - C 2K solid colors and clears.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C

Pre-treatment

As specified in the TDS of the product in which UPO - 3940 is being used - Solid Topcoat, 2K Clears.

 <p>Mixing Ratio</p>	<p>Stir well before use.</p> <p>Option 1: When UPO - 3940 is contained in the mixing formula: Mix the components respecting the amounts specified in the mixing formula. Prepare the paint for application by adding hardener and thinner as indicated in the TDS of the topcoat/clearcoat being adjusted.</p> <p>Option 2: When matting an original glossy topcoat/clearcoat: Add UPO - 3940 to produce the desired degree of matting.</p> <table border="1"> <tr> <td>Semi Gloss: UP - C 2K Topcoat UPP - 3940</td> <td>100 (vol) 30 (vol)</td> <td>UP - C 2K Clears UPO - 3940</td> <td>100 (vol) 30 (vol)</td> </tr> <tr> <td>Semi Gloss: UP - C 2K Topcoat UPP - 3940</td> <td>100 (vol) 50 (vol)</td> <td>UP - C 2K Clears UPO - 3940</td> <td>100 (vol) 50 (vol)</td> </tr> <tr> <td>Semi Gloss: UP - C 2K Topcoat UPP - 3940</td> <td>100 (vol) 100 (vol)</td> <td>UP - C 2K Clears UPO - 3940</td> <td>100 (vol) 100 (vol)</td> </tr> </table>	Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 30 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 30 (vol)	Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 50 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 50 (vol)	Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 100 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 100 (vol)
Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 30 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 30 (vol)										
Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 50 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 50 (vol)										
Semi Gloss: UP - C 2K Topcoat UPP - 3940	100 (vol) 100 (vol)	UP - C 2K Clears UPO - 3940	100 (vol) 100 (vol)										
 <p>Sprayguns</p>	<p>Stir well. Prepare the paint for application by adding hardener and thinner as indicated in the TDS of the topcoat/clearcoat being adjusted.</p> <table border="1"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm										
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm										
 <p>Application</p> <p>Further Treatment</p>	<p>Number of spraycoats: 1 half wet + 1 wet coat Film thickness: 40 - 60 µm Dust - free until mat between spraycoats and before stoving.</p> <p>As specified in the TDS of the product, in which UPO - 3940 is being used.</p>												

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2K Clears

UPC - 810 Mirror Effect Clear

Product Description







Mirror effect clears for application ranging from spot repair, panel repair to overall refinish.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² / l (avg) at 1 µm

Pre-treatment

UPC - 810 Mirror Effect Clear is suitable to be applied on top of a clean and dust-free Universal Auto Color Plus basecoat. See TDS of basecoat for other preparation of substrate.

	Mixing Ratio	<table border="0"> <tr> <td>UPC - 810</td> <td>Clear</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 812</td> <td>Hardener</td> <td>50 (vol)</td> <td>49 g</td> </tr> <tr> <td>UPR - 1</td> <td>Thinner</td> <td>15 - 20 (vol)</td> <td>13 - 18 g</td> </tr> </table>	UPC - 810	Clear	100 (vol)	100 g	UPH - 812	Hardener	50 (vol)	49 g	UPR - 1	Thinner	15 - 20 (vol)	13 - 18 g	
UPC - 810	Clear	100 (vol)	100 g												
UPH - 812	Hardener	50 (vol)	49 g												
UPR - 1	Thinner	15 - 20 (vol)	13 - 18 g												
		<p>Mix well and strain before application. Note: UPH - 811 / UPR - 5 is for temperatures between 5°C - 15°C UPH - 812 / UPR - 1 is for temperatures between 15°C - 25°C UPH - 813 / UPR - 2 is for temperatures above 25°C UPR - 3 Thinner is for temperatures above 35°C or when refinishing large surfaces UPH - 3500 / UPH - 3600 / UPH - 3700 (2:1) Hardeners are also available for UPC - 810 Clear.</p>													
	Spray Viscosity Potlife	<p>14 to 17 seconds DIN 4 cup at 25°C 3 - 4 hours at 25°C</p>													
	Sprayguns	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>		HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm												
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm												
	Application	<p>Number of spraycoats: 1 half wet + 1 wet coat Flash - off: 8 - 10 mins Film thickness: 40 - 50 µm</p>													
	Drying	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>30 - 40 mins</td> <td>-</td> </tr> <tr> <td>Ready for assembly after</td> <td>6 hours</td> <td>30 mins</td> </tr> <tr> <td>Ready for polish after</td> <td>11 - 13 hours</td> <td>90 mins</td> </tr> </table>		Drying	25°C	60°C	Dust free after	30 - 40 mins	-	Ready for assembly after	6 hours	30 mins	Ready for polish after	11 - 13 hours	90 mins
Drying	25°C	60°C													
Dust free after	30 - 40 mins	-													
Ready for assembly after	6 hours	30 mins													
Ready for polish after	11 - 13 hours	90 mins													
	IR Drying	<p>IR drying after dust free Step 1 - short wave: 5 mins at a 80 cm distance Step 2 - medium wave: 20 mins at a 80 cm distance</p>													
Further Treatment		<p>Polish after specified drying times and cooling.</p>													

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2K Clears

UPC - 2000 High Solid Clear (H.S)

Product Description







High Solid clears for application ranging from spot repair, panel repair to overall refinish.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 300 - 400 m² / l (avg) at 1 µm

Pre-treatment

UPC - 2000 High Solid Clear is suitable to be applied on top of a clean and dust - free Universal Auto Color Plus basecoat. See TDS of basecoat for other preparation of substrate.

 Mixing Ratio  Spray Viscosity Potlife  Sprayguns  Application  Drying  IR Drying Further Treatment	<p>UPC - 2000 Clear 100 (vol) 100 g</p> <p>UPH - 3622 Hardener 50 (vol) 50.2 g</p> <p>UPR - 1 Thinner 10 - 15 (vol) 9 - 13 g</p> <p>Mix well and strain before application.</p> <p>Note: UPH - 3621 / UPR - 5 is for temperatures between 5°C - 15°C UPH - 3622 / UPR - 1 is for temperatures between 15°C - 25°C UPH - 3623 / UPR - 2 is for temperatures above 25°C UPR - 3 is for temperatures above 35°C or when refinishing large surfaces.</p>											
	<p>15 to 17 seconds DIN 4 cup at 25°C 4-5 hours at 25°C</p>											
	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm			
	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm								
	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm								
	<p>Number of spraycoats: 1 half wet + 1 wet coat Flash - off: 8 - 10 mins Film thickness: 60 - 70 µm</p>											
<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>20 mins</td> <td>-</td> </tr> <tr> <td>Ready for assembly after</td> <td>6 hours</td> <td>30 mins</td> </tr> <tr> <td>Ready for polish after</td> <td>7.5 - 9 hours</td> <td>70 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	20 mins	-	Ready for assembly after	6 hours	30 mins	Ready for polish after	7.5 - 9 hours	70 mins
Drying	25°C	60°C										
Dust free after	20 mins	-										
Ready for assembly after	6 hours	30 mins										
Ready for polish after	7.5 - 9 hours	70 mins										
<p>IR drying after dust free</p> <table border="0"> <tr> <td>Step 1 - short wave:</td> <td>5 mins at a 80 cm distance</td> </tr> <tr> <td>Step 2 - medium wave:</td> <td>20 mins at a 80 cm distance</td> </tr> </table> <p>Polish after specified drying times and cooling.</p>	Step 1 - short wave:	5 mins at a 80 cm distance	Step 2 - medium wave:	20 mins at a 80 cm distance								
Step 1 - short wave:	5 mins at a 80 cm distance											
Step 2 - medium wave:	20 mins at a 80 cm distance											

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2K Clears

UPC - 511 4:1:0 UNIVERSAL CLEAR COAT KIT

Product Description







UPC-511 Universal clear coat for application ranging from spot repair, panel repair to overall refinish.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² / l (avg) at 1 µm

Pre-treatment

UPC-511 Universal clear is suitable to be applied on top of a clean and dust-free Universal AutoColor Plus basecoat. See TDS of basecoat for other preparation of substrate.

	Mixing Ratio	<table border="0"> <tr> <td>UPC - 511</td> <td>Clear</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 512</td> <td>Hardener</td> <td>25 (vol)</td> <td>49 g</td> </tr> <tr> <td>UPR - 1</td> <td>Thinner</td> <td>0 (vol)</td> <td>0 g</td> </tr> </table>	UPC - 511	Clear	100 (vol)	100 g	UPH - 512	Hardener	25 (vol)	49 g	UPR - 1	Thinner	0 (vol)	0 g
UPC - 511	Clear	100 (vol)	100 g											
UPH - 512	Hardener	25 (vol)	49 g											
UPR - 1	Thinner	0 (vol)	0 g											
		<p>Mix well and strain before application. Note: UPH - 511 / UPR - 0 is for temperatures between 5°C - 15°C UPH - 512 / UPR - 1 is for temperatures between 15°C - 25°C UPH - 513 / UPR - 2 is for temperatures above 25°C</p>												
	Spray Viscosity Potlife	<p>16 to 18 seconds DIN 4 cup at 25 °C 3 - 4 hours at 25°C</p>												
	Sprayguns	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Compliant gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm											
Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm											
	Application	<p>Number of spraycoats: 1 thin + 1 wet coat Flash - off: 8 - 10 mins Film thickness: 40 - 50 µm</p>												
	Drying	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>30 - 40 mins</td> <td>-</td> </tr> <tr> <td>Ready for assembly after</td> <td>6 hours</td> <td>30 mins</td> </tr> <tr> <td>Ready for polish after</td> <td>11 - 13 hours</td> <td>90 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	30 - 40 mins	-	Ready for assembly after	6 hours	30 mins	Ready for polish after	11 - 13 hours	90 mins
Drying	25°C	60°C												
Dust free after	30 - 40 mins	-												
Ready for assembly after	6 hours	30 mins												
Ready for polish after	11 - 13 hours	90 mins												
	IR Drying	<p>IR drying after dust free Step 1 - short wave: 5 mins at a 80 cm distance Step 2 - medium wave: 20 mins at a 80 cm distance</p>												
Further Treatment		<p>Polish after specified drying times and cooling.</p>												

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2K Clears

UPC - 7000 Hyper Fast Clear

Product Description







Hyper Fast Clear is for application of spot repair and panel repair.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² / l (avg) at 1 µm

Pre-treatment

UPC - 7000 Hyper Fast Clear is suitable to be applied on top of a clean and dust - free Universal Auto Color Plus basecoat. See TDS of basecoat for other preparation of substrate.

	Mixing Ratio	<table> <tbody> <tr> <td>UPC - 7000 Clear</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 3600 Hardener</td> <td>50 (vol)</td> <td>49 g</td> </tr> </tbody> </table>	UPC - 7000 Clear	100 (vol)	100 g	UPH - 3600 Hardener	50 (vol)	49 g						
UPC - 7000 Clear	100 (vol)	100 g												
UPH - 3600 Hardener	50 (vol)	49 g												
		<p>Mix well and strain before application. Note: UPH - 3500 is for temperatures between 5°C - 15°C UPH - 3600 is for temperatures between 15°C - 25°C UPH - 3700 is for temperatures above 25°C</p>												
	Spray Viscosity Potlife	<p>14 to 16 seconds DIN 4 cup at 25°C 1 - 2 hours at 25°C</p>												
	Sprayguns	<table> <tbody> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Compliant gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </tbody> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm											
Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm											
	Application	<p>Polish after specified drying times and cooling. Number of spraycoats: 1 half wet + 1 wet coat Flah - off: - Film thickness: 40 - 50 µm</p>												
	Drying	<table> <tbody> <tr> <td>Drying</td> <td>20°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>9 - 11 mins</td> <td>-</td> </tr> <tr> <td>Ready for assembly after</td> <td>80 hours</td> <td>-</td> </tr> <tr> <td>Ready for polish after</td> <td>90 - 120 hours</td> <td>30 mins</td> </tr> </tbody> </table>	Drying	20°C	60°C	Dust free after	9 - 11 mins	-	Ready for assembly after	80 hours	-	Ready for polish after	90 - 120 hours	30 mins
Drying	20°C	60°C												
Dust free after	9 - 11 mins	-												
Ready for assembly after	80 hours	-												
Ready for polish after	90 - 120 hours	30 mins												
	IR Drying	<p>IR drying after dust free Step 1 - short wave: 5 mins at a 80 cm distance Step 2 - medium wave: 10 mins at a 80 cm distance</p>												
Further Treatment		<p>Polish after specified drying times and cooling.</p>												

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2K Clears

UPC - 2020 Matt Clearcoat

Product Description







Matte finish clears for application ranging from spot repair, panel repair to overall refinish.

Technical Characteristics

Color: transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² /l (avg) at 1 µm

Pre-treatment

UPC - 2020 Matt Clearcoat is suitable to be applied on top of a clean and dust - free Universal Auto Color Plus basecoat. See TDS of basecoat for other preparation of substrate.

	Mixing Ratio	<table border="0"> <tr> <td>UPC - 2020 Clear</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPR - 2010 Hardener</td> <td>25 (vol)</td> <td>24.5 g</td> </tr> <tr> <td>UPR - 1 Thinner</td> <td>40 - 50 (vol)</td> <td>35 - 44 g</td> </tr> </table>	UPC - 2020 Clear	100 (vol)	100 g	UPR - 2010 Hardener	25 (vol)	24.5 g	UPR - 1 Thinner	40 - 50 (vol)	35 - 44 g			
UPC - 2020 Clear	100 (vol)	100 g												
UPR - 2010 Hardener	25 (vol)	24.5 g												
UPR - 1 Thinner	40 - 50 (vol)	35 - 44 g												
		<p>Mix well and strain before application. Note: UPC - 2010F / UPR - 5 is for temperatures between 5°C - 15°C UPC - 2010ST / UPR - K is for temperatures between 15°C - 25°C UPC - 2010SL / UPR - 2 is for temperatures above 25°C UPR - 3 is for temperatures above 35°C or when refinishing large surfaces.</p>												
	Spray Viscosity Potlife	<p>14 to 17 seconds DIN 4 cup at 25°C 2 - 3 hours at 25°C</p>												
	Sprayguns	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Compliant gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm				
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm											
Compliant gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm											
	Application	<p>Number of spraycoats: 1 half wet + 1 wet coat Flah - off: 8 - 10 mins Film thickness: 40 - 50 µm</p>												
	Drying	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>10 - 15 mins</td> <td>-</td> </tr> <tr> <td>Ready for assembly after</td> <td>6 hours mins</td> <td>30 mins</td> </tr> <tr> <td>Ready for polish after</td> <td>12 hours</td> <td>60 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	10 - 15 mins	-	Ready for assembly after	6 hours mins	30 mins	Ready for polish after	12 hours	60 mins
Drying	25°C	60°C												
Dust free after	10 - 15 mins	-												
Ready for assembly after	6 hours mins	30 mins												
Ready for polish after	12 hours	60 mins												
	IR Drying	<p>IR drying after dust free Step 1 - short ware: 5 mins at a 80 cm distance Step 2 - medium ware: 20 mins at a 80 cm distance</p>												
Further Treatment		<p>Polish after specified drying times and cooling.</p>												

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Primers

UPP - 3441 2K Primer Surfacer (Grey)

Product Description


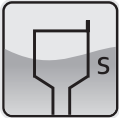



Multi-purpose primer surfacer for covering putty/existing finishes, easy sanding, high efficiency with strong filling power and adhesion.
Fine hardness is featured.

Technical Characteristics

Color: Grey Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² /l (avg) at 1 µm

Pre-treatment

Degrease with UPO - 3910.
Wash off residues and dry thoroughly.
Re-clean with UPO - 3910 The use of a tack rag is recommended.
Wet flat with P600 - 800 grade paper or dry flat with P240 - 360 grade paper.

 <p>Mixing Ratio</p>	<p>UPP - 3441 Primer 100 (vol) 100 g</p> <p>UPH - 3641 Hardener 25 (vol) 20 g</p> <p>UPR - 1 Thinner 50 - 60 (vol) 30 - 35 g</p>								
	<p>Mix well and strain before application. Note: UPR - 5 is for temperatures between 5°C - 15°C UPR - 1 is for temperatures between 15°C - 25°C UPR - 2 is for temperatures between 25°C - 35°C UPR - 3 is for temperatures above 35°C.</p>								
	<p> <p>Spray Viscosity Potlife</p> <p>16 to 20 seconds DIN 4 cup at 25°C 1.5 - 2 hours at 25°C</p> </p>								
	<p> <p>Sprayguns</p> <table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.5 - 1.7 mm</td> <td>1.8 - 2.0 bar</td> <td>15 - 20 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.6 - 1.8 mm</td> <td>3.0 - 4.0 bar</td> <td>20 - 25 cm</td> </tr> </table> </p>	HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm	Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm
	HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm					
Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm						
<p> <p>Application</p> <p>Number of spraycoats: 1 thin + 1 wet coat Flash - off: 5 - 8 mins Film thickness: 80 - 120 µm</p> </p>									
<p> <p>Drying</p> <table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>10 - 15 mins</td> <td>-</td> </tr> <tr> <td>Fully cured after</td> <td>1.5 - 2 hours</td> <td>30 mins</td> </tr> </table> </p>	Drying	25°C	60°C	Dust free after	10 - 15 mins	-	Fully cured after	1.5 - 2 hours	30 mins
Drying	25°C	60°C							
Dust free after	10 - 15 mins	-							
Fully cured after	1.5 - 2 hours	30 mins							
<p>Further Treatment</p> <p>After the dust-free, apply Universal Auto Color Plus basecoat or topcoat.</p>									

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Primers

UPP - 3441D 2K Primer Surfacer (Black)

Product Description

Multi - Purpose primer for covering putty/existing finishes. Fast - Drying and suitable for spot and panel repair.

Technical Characteristics

Color: Grey/White Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² /l (avg) at 1 µm






Pre-treatment

Degrease with UPO - 3910.

Wash off residues and dry thoroughly.

Re-clean with UPO - 3910 The use of a tack rag is recommended.

Wet flat with P600 - 800 grade paper or dry flat with P240 - 360 grade paper.

 <p>Mixing Ratio</p>	<table border="0"> <tr> <td>UPP - 3441D</td> <td>Primer</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 3641</td> <td>Hardener</td> <td>25 (vol)</td> <td>19 g</td> </tr> <tr> <td>UPR - 1</td> <td>Thinner</td> <td>50 - 60 (vol)</td> <td>30 - 35 g</td> </tr> </table>	UPP - 3441D	Primer	100 (vol)	100 g	UPH - 3641	Hardener	25 (vol)	19 g	UPR - 1	Thinner	50 - 60 (vol)	30 - 35 g
UPP - 3441D	Primer	100 (vol)	100 g										
UPH - 3641	Hardener	25 (vol)	19 g										
UPR - 1	Thinner	50 - 60 (vol)	30 - 35 g										
 <p>Spray Viscosity Potlife</p>	<p>Mix well and strain before application. Note: UPR - 5 is for temperatures between 5°C - 15°C UPR - 1 is for temperatures between 15°C - 25°C UPR - 2 is for temperatures between 25°C - 35°C UPR - 3 is for temperatures above 35°C.</p> <p>16 to 20 seconds DIN 4 cup at 25°C 1.5 - 2 hours at 25°C</p>												
 <p>Sprayguns</p>	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.5 - 1.7 mm</td> <td>1.8 - 2.0 bar</td> <td>15 - 20 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.6 - 1.8 mm</td> <td>3.0 - 4.0 bar</td> <td>20 - 25 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm	Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm				
HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm										
Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm										
 <p>Application</p>	<table border="0"> <tr> <td>Number of spraycoats:</td> <td>1 thin + 1 wet coat</td> </tr> <tr> <td>Flash - off:</td> <td>5 - 8 mins</td> </tr> <tr> <td>Film thickness:</td> <td>80 - 120 µm</td> </tr> </table>	Number of spraycoats:	1 thin + 1 wet coat	Flash - off:	5 - 8 mins	Film thickness:	80 - 120 µm						
Number of spraycoats:	1 thin + 1 wet coat												
Flash - off:	5 - 8 mins												
Film thickness:	80 - 120 µm												
 <p>Drying</p>	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>10 - 15 mins</td> <td>-</td> </tr> <tr> <td>Fully cured after</td> <td>1.5 - 2 hours</td> <td>30 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	10 - 15 mins	-	Fully cured after	1.5 - 2 hours	30 mins			
Drying	25°C	60°C											
Dust free after	10 - 15 mins	-											
Fully cured after	1.5 - 2 hours	30 mins											
<p>Further Treatment</p>	<p>After the dust-free, apply Universal Auto Color Plus basecoat or topcoat.</p>												

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Primers

UPP - 3441W 2K Primer Surfacer (White)

Product Description






Multi-purpose primer surfacer for covering putty/existing finishes, easy sanding, high efficiency with strong filling power and adhesion.
Fine hardness is featured.

Technical Characteristics

Color: White Shelf life: 24 months at 25°C Theoretical spreading rate: 250 - 300 m² /l (avg) at 1 µm

Pre-treatment

Degrease with UPO - 3910.
Wash off residues and dry thoroughly.
Re-clean with UPO - 3910 The use of a tack rag is recommended.
Wet flat with P600 - 800 grade paper or dry flat with P240 - 360 grade paper.

 <p>Mixing Ratio</p>	<table border="0"> <tr> <td>UPP - 3441W</td> <td>Primer</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 3641</td> <td>Hardener</td> <td>25 (vol)</td> <td>20 g</td> </tr> <tr> <td>UPR - 1</td> <td>Thinner</td> <td>50 - 60 (vol)</td> <td>30 - 35 g</td> </tr> </table> <p>Mix well and strain before application. Note: UPR - 5 is for temperatures between 5°C - 15°C UPR - 1 is for temperatures between 15°C - 25°C UPR - 2 is for temperatures between 25°C - 35°C UPR - 3 is for temperatures above 35°C</p>	UPP - 3441W	Primer	100 (vol)	100 g	UPH - 3641	Hardener	25 (vol)	20 g	UPR - 1	Thinner	50 - 60 (vol)	30 - 35 g
UPP - 3441W	Primer	100 (vol)	100 g										
UPH - 3641	Hardener	25 (vol)	20 g										
UPR - 1	Thinner	50 - 60 (vol)	30 - 35 g										
 <p>Spray Viscosity Potlife</p>	<p>16 to 20 seconds DIN 4 cup 25°C 15 - 2 hours at 25°C</p>												
 <p>Sprayguns</p>	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.5 - 1.7 mm</td> <td>1.8 - 2.0 bar</td> <td>15 - 20 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.6 - 1.8 mm</td> <td>3.0 - 4.0 bar</td> <td>20 - 25 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm	Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm				
HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.8 - 2.0 bar	15 - 20 cm										
Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm										
 <p>Application</p>	<p>Number of spraycoats: 1 thin + 1 wet coat Flash - off: 5 - 8 mins Film thickness: 80 - 120 µm</p>												
 <p>Drying</p>	<table border="0"> <tr> <td>Drying</td> <td>25°C</td> <td>60°C</td> </tr> <tr> <td>Dust free after</td> <td>10 - 15 mins</td> <td>-</td> </tr> <tr> <td>Fully cured after</td> <td>1.5 - 2 hours</td> <td>30 mins</td> </tr> </table>	Drying	25°C	60°C	Dust free after	10 - 15 mins	-	Fully cured after	1.5 - 2 hours	30 mins			
Drying	25°C	60°C											
Dust free after	10 - 15 mins	-											
Fully cured after	1.5 - 2 hours	30 mins											
<p>Further Treatment</p>	<p>After the dust-free, apply Universal Auto Color Plus basecoat or topcoat.</p>												

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Primers

UPC - 974 Epoxy Primer

Product Description






Anti - corrosion epoxy primer for bare metal.
Adhesive to steel, aluminum and galvanized steel.

Technical Characteristics

Color: Grey Shelf life: 24 months at 25°C Theoretical spreading rate: 300 - 360 m² /l (avg) at 1 um

Pre-treatment

Degrease with UPO - 3910.
Wet flat with P180 - 240 grade paper or dry flat with P80 -120 grade paper.
Clean with UPO - 3910.

 <p>Mixing Ratio</p>	<p>Stir well before use.</p> <table border="0"> <tr> <td>UPC - 974 Primer</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPC - 964 Hardener</td> <td>25 (vol)</td> <td>20 g</td> </tr> <tr> <td>UPC - 954 Thinner</td> <td>50 - 60 (vol)</td> <td>35 - 40 g</td> </tr> </table> <p>Mix well and strain before application.</p>	UPC - 974 Primer	100 (vol)	100 g	UPC - 964 Hardener	25 (vol)	20 g	UPC - 954 Thinner	50 - 60 (vol)	35 - 40 g
UPC - 974 Primer	100 (vol)	100 g								
UPC - 964 Hardener	25 (vol)	20 g								
UPC - 954 Thinner	50 - 60 (vol)	35 - 40 g								
 <p>Spray Viscosity Potlife</p>	<p>16 to 20 seconds DIN 4 cup at 25°C 24 hours at 25°C</p>									
 <p>Sprayguns</p>	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.5 - 1.7 mm</td> <td>1.5 - 2.0 bar</td> <td>15 - 20 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.6 - 1.8 mm</td> <td>3.0 - 4.0 bar</td> <td>20 - 25 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.5 - 2.0 bar	15 - 20 cm	Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm	
HVLP gravity - feed spraygun	1.5 - 1.7 mm	1.5 - 2.0 bar	15 - 20 cm							
Conventional gravity - feed spraygun	1.6 - 1.8 mm	3.0 - 4.0 bar	20 - 25 cm							
 <p>Application</p>	<p>Number of spraycoats: 2 coats Flash - off: 8 - 10 mins Film thickness: 50 - 60 µm Note: This primer can also be applied with a brush.</p>									
 <p>Drying</p> <p>Further Treatment</p>	<p>Dust free after: 20 - 30 mins Drying at 25°C 6 hours Drying at 60°C 1 hour</p> <p>After the dust - free, apply Universal Auto Color Plus UP - B 1K / UP - C 2K primer if large sand holes exist(optional).</p>									

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Primers

UPC - 900 Plastic Primer

Product Description

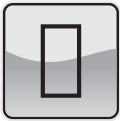
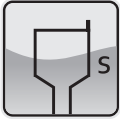



Single-component primer to promote adhesion of paint to plastic parts. Suitable for PP, ABS, PA or PVC plastic substrates.

Technical Characteristics

Color: Transparent Shelf life: 24 months at 25°C Theoretical spreading rate: 30 - 60 m² /l (avg) at 1 um

Pre-treatment

Degrease with UPO - 3910.
 Wash off residues and dry thoroughly.
 Re-clean with UPO - 3910 The use of a tack rag is recommended.
 Plastic substrates except PE should be wet flat with P600 - 800 grade paper or dry flat with P320 - 400 grade paper.

	Mixing Ratio	This product is ready for use.								
	Spray Viscosity Potlife	16 to 18 seconds DIN 4 cup at 25°C 72 hours at 25°C								
	Sprayguns	<table border="0"> <tr> <td>HVLP gravity - feed spraygun</td> <td>1.2 - 1.3 mm</td> <td>1.5 - 2.0 bar</td> <td>10 - 15 cm</td> </tr> <tr> <td>Conventional gravity - feed spraygun</td> <td>1.3 - 1.6 mm</td> <td>3.0 - 4.0 bar</td> <td>15 - 20 cm</td> </tr> </table>	HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm	Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm
HVLP gravity - feed spraygun	1.2 - 1.3 mm	1.5 - 2.0 bar	10 - 15 cm							
Conventional gravity - feed spraygun	1.3 - 1.6 mm	3.0 - 4.0 bar	15 - 20 cm							
	Application	<table border="0"> <tr> <td>Number of spraycoats:</td> <td>2 thin coats</td> </tr> <tr> <td>Flash - off:</td> <td>5 - 10 mins</td> </tr> <tr> <td>Film thickness:</td> <td>5 - 10 µm</td> </tr> </table>	Number of spraycoats:	2 thin coats	Flash - off:	5 - 10 mins	Film thickness:	5 - 10 µm		
Number of spraycoats:	2 thin coats									
Flash - off:	5 - 10 mins									
Film thickness:	5 - 10 µm									
	Drying	Dust free at 25°C: 15 - 20 mins								
Further Treatment		After the dust-free, apply Universal Auto Color Plus UP - C 1K / 2K primer.								

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Hardeners

UP Series Hardeners

Product Description

Yellow resistant hardeners to be added into 2K products to generate the chemical reaction between the hardener and acrylic resin. Differ from ranges of temperatures and solid contents.

UPH - 3500, UPH - 3600, UPH - 3700 are 2:1 universal hardener for UPC - 810, UPC - 7000G Clear coat.

UPH - 814, UPH - 815, UPH - 816 are 4:1 universal hardener for UPC - 810 Clear coat.

For 2K Topcoats & Clears:

	5°C - 15°C	15°C - 25°C	> 25°C
2:1 2K Topcoats&clear coat	UPH - 3500 Hardener	UPH - 3600 Hardener	UPH - 3700 Hardener
4:1 Clear Coat	UPH - 814 Hardener	UPH - 815 Hardener	UPH - 816 Hardener
2:1 UPC - 810 Clear	UPH - 811 Hardener	UPH - 812 Hardener	UPH - 813 Hardener
2:1 UPC - 2000 Clear	UPH - 3621 Hardener	UPH - 3622 Hardener	UPH - 3623 Hardener
2:1 UPC - 7000G Clear	UPH - 3500 Hardener	UPH - 3600 Hardener	UPH - 3700 Hardener

Note

For 2K Primers:





UPH - 3641 hardener for UPP - 3441 2K Primer Surfacer.

Technical Characteristics

Color: transparent, Shelf life: 12 months at 25°C

Pre-treatment

As specified in the TDS of the products in which UP Hardeners are being used.

	Mixing Ratio	<p>Mix the 2K products with hardener and thinner as specified in the TDS. Stir well before use.</p> <table border="1"> <tbody> <tr> <td>UPP - 3441</td> <td>100 (vol)</td> <td>100 g</td> <td>UP - C 2K Solids</td> <td>100 (vol)</td> <td>depending on colors</td> </tr> <tr> <td>UPH - 3641</td> <td>25 (vol)</td> <td>20 g</td> <td>UPH - 3600</td> <td>50 (vol)</td> <td></td> </tr> <tr> <td>UPR - 1</td> <td>50 - 60 (vol)</td> <td>30 - 35 g</td> <td>UPR - 1</td> <td>20 - 30 (vol)</td> <td></td> </tr> </tbody> </table>	UPP - 3441	100 (vol)	100 g	UP - C 2K Solids	100 (vol)	depending on colors	UPH - 3641	25 (vol)	20 g	UPH - 3600	50 (vol)		UPR - 1	50 - 60 (vol)	30 - 35 g	UPR - 1	20 - 30 (vol)	
UPP - 3441	100 (vol)	100 g	UP - C 2K Solids	100 (vol)	depending on colors															
UPH - 3641	25 (vol)	20 g	UPH - 3600	50 (vol)																
UPR - 1	50 - 60 (vol)	30 - 35 g	UPR - 1	20 - 30 (vol)																
	Potlife	<p>Please refer to the TDS of Clear Coats to get the corresponding mixing ratio. Mix well and strain before application.</p>																		
	Application	<p>As specified in the TDS of the products in which UP Hardeners are being used.</p>																		
	Drying	<p>As specified in the TDS of the products in which UP Hardeners are being used.</p>																		
Further Treatment		<p>Refinished panels can be recoated or mounted after drying and - if required - cooling.</p>																		

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Thinners

Universal Auto Color Plus Thinners

Product Description

Used to reduce application viscosity and to increase the smoothness of the paint film. Thinner with high dissolving ability, compatible with Universal Auto Color Plus primers, basecoats, topcoats and clears.




UPR - 5 Thinner 5°C - 15°C (Fast) UPR - 1 Thinner 15°C - 25°C (Standard) UPR - 2 Thinner 25°C - 35°C (Slow)
UPR - 3 Thinner >35°C (Extra Slow)

Technical Characteristics

Color: Transparent Shelf life: 48 months at 25°C

Pre-treatment

As specified in the TDS of the products in which UP Thinner is being used.

 <p>Mixing Ratio</p>	<p>Stir well before use.</p> <table border="0"> <tr> <td>UPP - 3441</td> <td>Primer</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPH - 3641</td> <td>Hardener</td> <td>25 (vol)</td> <td>20 g</td> </tr> <tr> <td>UPR - 5 / 1 / 2 / 3</td> <td>Thinner</td> <td>50 - 60 (vol)</td> <td>30 - 35 g</td> </tr> <tr> <td colspan="2">2K Solids/Clears</td> <td>100 (vol)</td> <td>100 g</td> </tr> <tr> <td>UPR - 5 / 1 / 2 / 3</td> <td>Thinner</td> <td colspan="2">depending on 2K Solids / Clears</td> </tr> </table>	UPP - 3441	Primer	100 (vol)	100 g	UPH - 3641	Hardener	25 (vol)	20 g	UPR - 5 / 1 / 2 / 3	Thinner	50 - 60 (vol)	30 - 35 g	2K Solids/Clears		100 (vol)	100 g	UPR - 5 / 1 / 2 / 3	Thinner	depending on 2K Solids / Clears	
UPP - 3441	Primer	100 (vol)	100 g																		
UPH - 3641	Hardener	25 (vol)	20 g																		
UPR - 5 / 1 / 2 / 3	Thinner	50 - 60 (vol)	30 - 35 g																		
2K Solids/Clears		100 (vol)	100 g																		
UPR - 5 / 1 / 2 / 3	Thinner	depending on 2K Solids / Clears																			
 <p>Mixing Ratio</p>	<table border="0"> <tr> <td>1K Basecoats</td> <td>100 (vol)</td> <td>depending on colors</td> </tr> <tr> <td>UPR - 5 / 1 / 2 / 3</td> <td>100 - 120 (vol)</td> <td></td> </tr> </table> <p>Mix well and strain before application. Note: If the temperature and humidity are too high, UPO - 3960 retarder solvent can be added.</p>	1K Basecoats	100 (vol)	depending on colors	UPR - 5 / 1 / 2 / 3	100 - 120 (vol)															
1K Basecoats	100 (vol)	depending on colors																			
UPR - 5 / 1 / 2 / 3	100 - 120 (vol)																				
 <p>Application</p>	<p>As specified in the TDS of the products in which UP Hardeners are being used.</p> <p>Important: Due to different dissolving ability, it is recommended Universal Auto Color Plus products should be used with UP Thinner to ensure the best performance.</p> <p>Tips:</p> <ol style="list-style-type: none"> 1) Be cautious of over dissolution of the paint when using high-dissolving thinner. Avoid orange peel. 2) Be cautious of under dissolution of the paint when using poor-dissolving thinner. Avoid poor leveling and poor color effect (e.g. orientation of aluminum/pearl particles, poor solid color brightness). 																				

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Auxiliaries

UPO - 3920 Thinner SRA

Product Description




Blending thinner designed to smooth transition areas from blend-in zones to old paintwork, by dissolving rough overspray area of new and existing finishes. Suitable for panel/spot repair.

Technical Characteristics

Color: transparent Shelf life: 36 months at 25°C

Pre-treatment

See process described in **other Universal Auto Color Plus TDS.**

	Mixing Ratio	The product is ready for use.
	Application	1 thin coat right after the finish, second coat in 20 seconds.
	Drying	As recommended for the Universal Auto Color Plus clear used.
Further Treatment		If necessary, minor defects can be sanded out with P2000 paper then polish with any standard fine polishing compound once the clear coat has fully cured.

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Auxiliaries

UPO - 3960 Retarder Solvent

Product Description







Additive for use in 1K basecoats, 2K topcoats and clears at high temperature (>30°C), at high humidity level (>70%) and/or at high air speed level (>0.5m/s) in booths, to prolong volatilization of solvent and to help produce a good leveling and blushing - free refinishing job in above - mentioned circumstance.

Technical Characteristics

Color: Transparent Shelf life: 24 months at 25°C

Pre-treatment

As specified in the TDS of the product in which UPO - 3960 is being used – Solid Basecoat 2c, Metallic Colors 2c, Red Pearl 2c, Xirallic / Pearlescent Basecoat 3c, Solid Topcoat, 2K Clears.

 <p>Mixing Ratio</p>	<p>Stir well before use. Add UPO - 3960 (30% max) to the first basecoat layer. Example for a humidity level is above 70%:</p> <p>UP - B 1K Basecoat 100 (vol) UPR - 3 70 - 90 (vol) UPO - 3960 10 - 30 (vol) - to proportionately replace same amount of UP - Thinner</p>
 <p>Mixing Ratio</p>	<p>Add UPO - 3960 (10% max) to the first topcoat/clearcoat layer. Example for a humidity level is above 70%:</p> <p>UP - C 2K Solids/Clears 100 (vol) UP - Slow Hardener 50 (vol) UPR - 3 depending on clears UPO - 3960 5 - 10 (vol) - to proportionately replace same amount of UP - Thinner</p>
 <p>Potlife</p>	<p>The addition of UPO - 3960 does not change the potlife of the topcoats.</p>
 <p>Sprayguns</p>	<p>As specified in the TDS of the product in which UPO - 3960 is being used.</p>
 <p>Application</p>	<p>Intermediate flash-off times will be 5+ mins longer compared with the times specified in the TDS of the product in which UPO - 3960 is being used. Reasonable extension of flash - off time can help reduce the blush of paint. As specified in the TDS of the product in which UPO - 3960 is being used. Important: Topcoats and clears mixed with UPO - 3960 will be as hard and resistant as surfaces refinshed without UPO - 3960 however, he addition of UPO - 3960 can have a negative effect on initial hardness after stoving.</p>
 <p>Drying</p> <p>Further Treatment</p>	<p>Option 1: Prolong the drying time. Option 2: Increase the amount of the hardener used in the UP - C 2K topcoat/clear to no more than 10%. As specified in the TDS of the product in which UPO - 3960 is being used.</p>

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Auxiliaries

UPP - 3340 Adhesion Promoter

Product Description
 Additives used to increase adhesion power of Universal Auto Color Plus basecoat or Topcoat on metal substrates. Optional for 1K/2K primer.

Technical Characteristics
 Color: light yellow Shelf life: 24 months at 25°C

Pre-treatment
 See process described in TDS of Universal Auto Color Plus Basecoat or Topcoat - Solid Basecoat 2c, Metallic Colors 2c, Red Pearl 2c, Xirallic / Pearlescent Basecoat 3c, Solid Topcoat.

 <p>Mixing Ratio</p>  <p>Application</p>  <p>Drying</p>	<p>Stir well before use.</p> <p>Option 1: When spraying basecoat/topcoat directly to metal substrates without epoxy and putty: Add 10 - 20% of UPP - 3340 to 1 liter of Universal Auto Color Plus original basecoat or topcoat. Prepare the paint for application by adding hardener or thinner as indicated in the TDS of the topcoat/clearcoat being adjusted.</p> <p>Option 2: When spraying primers directly to metal substrates (e.g. iron, stainless steel, galvanized steel, aluminum alloy, etc.) without epoxy and/or putty: Add 10 - 20% of UPP - 3340 to 1 liter of Universal Auto Color Plus original 1K/2K primer. Prepare the paint for application by adding hardener or thinner as indicated in the TDS of the 1K/2K primer being adjusted. Strain before application.</p> <p>As specified in the TDS of the products in which UPP - 3340 is being used.</p> <p>As specified in the TDS of the products in which UPP - 3340 is being used.</p>
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Auxiliaries

UPO - 3980 Quick Drier

Product Description

Drying accelerator for use in UP - C 2K topcoats/clears. The addition of UPO - 3980 will accelerate the chemical reaction between the hardener and the acrylic resin of the products.

Technical Characteristics

Color: transparent Shelf life: 36 months at 25°C

Pre-treatment

As specified in the TDS of the product in which UPO - 3980 is being used - Solid Topcoat, 2K Clears.



Mixing Ratio

Mix the UP - C 2K products with hardener and thinner as specified in the TDS. Use the amount of ready-for-use product to determine the amount of UPO - 3980 to be added.

Important:

The addition of UPO - 3980 will reduce the potlife of the product.
UPO - 3980 can NOT be used as hardener.

Use a fast thinner when working in low temperatures (5 - 15°C).
1% of UPO - 3980 = 2.5 capfuls of UPO - 3980 per liter of ready-for-use product (base + hardener + thinner)

1) Drying in low temperatures

The normal application temperature for paint products is 25°C. If the application temperature is lower, the following percentages apply:

Temperature	10°C - 15°C	0°C - 10°C	< 0°C
UPO - 3980 (2K Solids)	0.5 - 1 %	1 - 1.5 %	2 %
(2K Clears)	1 - 1.5 %	1.5 - 2 %	3 %
(2K Primer)	1 - 1.5 %	1.5 - 2 %	3 %

2) Accelerating drying

The stoving time for UP - C 2K products at 60°C is 60 minutes. When refinishing individual panels, it is possible to reduce the stoving time to 30 minutes at 60°C if the following percentages are respected:

	UP - C 2K Solids	UP - C 2K Clears	UP - C 2K Primer
UPO - 3980	0.5 %	1 %	1 - 2 %

UPO - 3980 should always be used in small amounts (3% max). If you add too much UPO - 3980 you will risk loss of gloss or paint film embrittlement.

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Auxiliaries

UPO - 3910 Degreaser

Product Description



UPO - 3910 are particularly well suited for removing grease, oils, wax and silicone prior to the application of Universal Auto Color Plus primer and for the pre - treatment of plastic surfaces.

Technical Characteristics

Color: transparent Shelf life: 48 months at 25°C

Pre-treatment

Do not use the cleaners on solvent - sensitive or thermoplastic substrates.

 <p>Mixing Ratio</p>	<p>This product is ready for use Soak a clean and dry lint - free cloth with UPO - 3910</p> <p>Degrease small areas of approximately 0.5m² of the surface to be painted and wipe these areas immediately afterwards with a dry cloth of the same quality.</p>
 <p>Application</p>	<p>UPO - 3910 should not dry on the surface being treated.</p> <p>Attention: Some 1K primers/basecoats may suffer surface etching from the use of UPO - 3910. In this case, ensure a good flash-off of the substrate before going on with the repair so that no solvents will be trapped in the new paint system. In extreme cases, remove the 1K primer/basecoat before applying the new paint system, or flat with P800 - 1000 grade sandpaper for refining refinish.</p>
<p>Further Treatment</p>	<p>As specified in the Universal Auto Color Plus refinishing processes.</p>

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