



Effective January 4, 2011

# VR-1120

VALUECLEAR VOC

## Description

2-component Low Emission clear, to be used in clear over base system.  
Composition based on acrylic copolymer.

## Products

VR-1120	ValueClear VOC
VR-1130	ValueActivator Fast
VR-1131	ValueActivator
VR-1132	ValueActivator Slow

## Properties

- Can be used for spot, panel and overall repair.
- VOC compliant, conform with directive 2004/42/EC.

## Substrates

- DuPont Refinish Waterborne Basecoats and activated DuPont Refinish Solventborne Basecoats.
- All cleaned and sanded OEM and cured repair finishes (not recommended on thermoplastic acrylic finishes).



Effective January 4, 2011

# VR-1120

VALUECLEAR VOC

## PRODUCT PREPARATION

	<b>Mixing ratio</b>		<b>Spot and panel</b>		<b>Standard</b>		<b>High temperature</b>	
			Volume	Weight	Volume	Weight	Volume	Weight
		VR-1120	2	100	2	100	2	100
		VR-1130	1	51	-	-	-	-
		VR-1131	-	-	1	51	-	-
	VR-1132	-	-	-	-	1	51	
<b>VOC</b>		420 g/l						
	<b>Pot life at 20°C</b>	VR-1130	1 hr 30 min					
		VR-1131	2 hr					
		VR-1132	2 hr					
	<b>Spray viscosity at 20°C</b>	<b>DIN 4</b>	19-21 s					
		<b>FORD 4</b>	20-22 s					
		<b>AFNOR 4</b>	22-24 s					
	<b>Spray equipment</b>	<b>Conventional guns</b>	<b>Fluid tip</b>		<b>Distance</b>		<b>Pressure</b>	
		Gravity feed	1.4-1.6 mm		15-20 cm		3-4 bar	
		Suction feed	1.6-1.8 mm		15-20 cm		3-4 bar	
		Pressure feed	1.0-1.2 mm		15-20 cm		3-4 bar	
		<b>Compliant guns (HVLPH/TE)</b>						
		Gravity feed	1.3-1.5 mm		10-15 cm		According to supplier's specifications	
	Suction feed	1.5-1.6 mm		10-15 cm				
	Pressure feed	1.0-1.2 mm		10-15 cm				
	<b>Number of coats</b>	1.5						
	<b>Flash time</b>	0-3 min between coats. 5-10 min before bake.						
	<b>DFT</b>	50-65 µ						
	<b>Drying</b>		<b>VR-1130</b>		<b>VR-1131</b>		<b>VR-1132</b>	
			25 min x 60°C		35 min x 60°C		45 min x 60°C	
		<b>Dust-free</b>	imm.		imm.		imm.	
	<b>Dry to handle</b>	45 min		45 min		45 min		
	<b>Tape-free</b>	2 hr 30 min		2 hr 30 min		2 hr 30 min		
	<b>IR drying*</b>	Flash time	5 min			* Guideline for short/medium wave IR equipment.		
		Distance	80 cm					
		Half power	5 min					
		Full power	15-20 min					
This data relates only to the material designated herein and does not apply to use in combination with any other material or any process. The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use.								



Effective January 4, 2011

# VR-1120

VALUECLEAR VOC

## RECOMMENDED USE

### Surface preparation

1. Clean surface with water and soap. Rinse and dry.
2. Degrease with a correct DuPont Refinish preparatory cleaner. Wipe dry with a clean cloth.
3. Repair according to damage.
4. Degrease with a correct DuPont Refinish final cleaner/degreaser. Wipe dry with a clean cloth.
5. Tack rag.
6. If needed, apply a DuPont Refinish Waterborne Basecoat.

### Clearcoat application

When the Basecoat is completely flat, apply VR-1120 in 1 light coat immediately followed by a full coat.

### Chemical resistance

When fully cured, VR-1120 is resistant to short exposures of the chemicals as listed:

sodium hydroxide	20 %	battery acid
sulphuric acid	25 %	toluene
hydrochloric acid	10 %	xylene
phosphoric acid	20 %	diesel
ammonia	10 %	brake fluid

### Equipment cleaning

Use a correct DuPont Refinish solventborne gunwash.



Effective January 4, 2011

# VR-1120

VALUECLEAR VOC

## RECOMMENDED USE (con'd)

### Recoatability

At any time after tape-free time. After 24 hr, scuff sanding is required.

### Remarks

- Close can of activator tightly immediately after use, as this product will react with humid air and water and lose its hardening effect.
- Activated material should not be returned to original can of non-activated material.
- Dry spray spots in the clear can be worked off with AK350 at very low spray pressure. This should be done at the latest 5 min after clear application and should be avoided on horizontal parts.
- For flexible systems, see specific TDS.
- For mixing rod information, see specific TDS.
- Material has to be at room temperature (18-25°C) before use.

### Product data

Package viscosity: 130 cp  
 Theoretical coverage: 9-10 m<sup>2</sup>/l at recommended DFT - ready-to-spray  
 Directive 2004/42/EC: 2004/42/IIB(d) (420)420: The EU limit value for this product (product category: IIB(d)) in ready to use form is maximum 420 g/l of VOC. The VOC content of this product in ready to use form is maximum 420 g/l.

Products	Packages (l)	Shelf life at 20°C (year)	Density (kg/l)
VR-1120	1 - 5	4	0.988
VR-1130	1	3	1.023
VR-1131	1	3	1.023
VR-1132	1	3	1.020

### Safety

Consult Safety Data Sheet prior to use. Observe the precautionary notices displayed on the container.



Effective January 4, 2011

# VR-1120

VALUECLEAR VOC

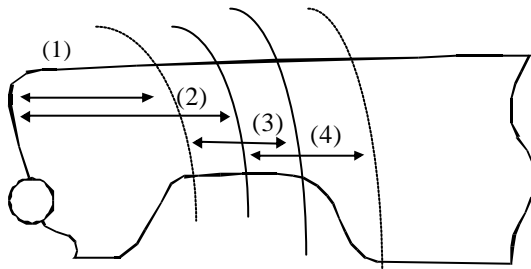
## REPAIR SYSTEMS

### Overall repair

Pay attention to the application method. Spray procedure has to ensure proper overspray melt-in which is achieved within 2 min of the clear application. Plan the process to avoid dry overspray.

### Spot repair: AK350 Fade-out Thinner method

- (1) Apply 1 coat of VR-1120 over the basecoat, extending into the area surrounding the spot.
  - (2) Apply a 2nd coat of VR-1120, extending further into the area surrounding the spot.
  - (3) Smoothen out the fade-out area with AK350 within 5 min maximum.
  - (4) Optionally extend the fade-out area with AK350 within 5 min maximum.
- ! Surface should be carefully and correctly prepared before the basecoat application.  
See recommended use, paragraph surface preparation.
- ! Stay with the application of AK350 within the prepared area



If necessary, balance out the gloss level by polishing with a non silicone containing polishing compound or a non silicone containing final glaze, after complete hardening of the repair.