

SIM **Paint and Material Settings**

Materials:

Paint - HVLP:	2
Paint - Airless:	2
Paint - Air-Assisted Airless:	4
Aerospace:	5
Automotive:	5
Building Trades:	7
Furniture & Cabinetry:	9
Structural:	11
Blast:	11
Powder:	13



SIM Spray® Paint and Material Settings

Paint - HVLP:

Name:	VRSim HVLP Primer			
Coat(s):	1	Coat Thickness:	1.2 - 2.5 mils	
Viscosity:	40 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	7 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A
Recommended Tip(s):	1.2			

Name:	VRSim HVLP Color			
Coat(s):	1	Coat Thickness:	1.2 - 2.5 mils	
Viscosity:	40 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	7 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A
Recommended Tip(s):	1.2			

Name:	VRSim HVLP Clear			
Coat(s):	1	Coat Thickness:	1.2 - 2.5 mils	
Viscosity:	40 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	7 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A
Recommended Tip(s):	1.2			



SIM Spray® Paint and Material Settings

Paint - Airless:

Name:	VRSim Airless Primer			
Coat(s):	1	Coat Thickness:	3.0 - 6.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	13 in.	Speed:	Normal
Equipment:	Air Pressure:	N/A	Fluid Pressure:	1800 - 2300 psi
Recommended Tip(s):	517			

Name:	VRSim Airless Color			
Coat(s):	1	Coat Thickness:	3.0 - 6.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	13 in.	Speed:	Normal
Equipment:	Air Pressure:	N/A	Fluid Pressure:	1800 - 2300 psi
Recommended Tip(s):	517			

Name:	VRSim Airless Clear			
Coat(s):	1	Coat Thickness:	3.0 - 6.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	13 in.	Speed:	Normal
Equipment:	Air Pressure:	N/A	Fluid Pressure:	1800 - 2300 psi
Recommended Tip(s):	517			

Paint - Air-Assisted Airless:

Name:	VRSim AAA Primer			
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	11 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi
Recommended Tip(s):	517			

Name:	VRSim AAA Color			
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	11 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi
Recommended Tip(s):	517			

Name:	VRSim AAA Clear			
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils	
Viscosity:	1500 Centistoke	% Solids:	40	Flash Time: 15 minutes
Application:	Distance:	11 in.	Speed:	Normal
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi
Recommended Tip(s):	517			



SIM Spray® Paint and Material Settings

Aerospace:

Name:	Chromate Free Epoxy Primer				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	1.5 - 3.0 mils		
Viscosity:	20 Centistoke	% Solids:	43	Flash Time:	2 hours
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				

Name:	Polyester Urethane				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	2.0 - 3.5 mils		
	2	Coat Thickness:	2.0 - 3.5 mils		
Viscosity:	20 Centistoke	% Solids:	43	Flash Time:	3 hours
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				

Automotive:

Name:	Urethane Primer				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	1.0 - 2.0 mils		
	2	Coat Thickness:	1.0 - 2.0 mils		
Viscosity:	70 Centistoke	% Solids:	38	Flash Time:	15 minutes
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				

Name:	Urethane Base				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	1.5 - 3.0 mils		
	2	Coat Thickness:	1.5 - 3.0 mils		
Viscosity:	70 Centistoke	% Solids:	40	Flash Time:	30 minutes
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				

Name:	High Solids Urethane Clearcoat				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	2.0 - 3.5 mils		
	2	Coat Thickness:	2.0 - 3.5 mils		
Viscosity:	35 Centistoke	% Solids:	35	Flash Time:	30 minutes
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				

Building Trades:

Name:	Interior-Exterior Primer				
Process(es):	Airless				
Coat(s):	1	Coat Thickness:	3.5 - 5.5 mils		
Viscosity:	1000 Centistoke	% Solids:	43	Flash Time:	30 minutes
Application:	Distance:	13 in.	Speed:	Normal	
Equipment:	Air Pressure:	N/A	Fluid Pressure:	2400 - 3000 psi	
Recommended Tip(s):	517				

Name:	Interior-Exterior Latex				
Process(es):	Airless				
Coat(s):	1	Coat Thickness:	3.0 - 5.0 mils		
	2	Coat Thickness:	3.0 - 5.0 mils		
Viscosity:	1200 Centistoke	% Solids:	47	Flash Time:	1 hour
Application:	Distance:	13 in.	Speed:	Normal	
Equipment:	Air Pressure:	N/A	Fluid Pressure:	2400 - 3000 psi	
Recommended Tip(s):	517				

Name:	Urethane Acrylic Primer				
Process(es):	Air-Assisted Airless				
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils		
Viscosity:	1800 Centistoke	% Solids:	32	Flash Time:	15 minutes
Application:	Distance:	11 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi	
Recommended Tip(s):	517				



SIM Spray® Paint and Material Settings

Name:	Urethane Enamel				
Process(es):	Air-Assisted Airless				
Coat(s):	1	Coat Thickness:	2.0 - 4.0 mils		
	2	Coat Thickness:	2.0 - 4.0 mils		
Viscosity:	1600 Centistoke	% Solids:	30	Flash Time:	15 minutes
Application:		Distance:	11 in.	Speed:	Normal
Equipment:		Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi
Recommended Tip(s):		517			

Furniture & Cabinetry:

Name:	Urethane Acrylic Primer				
Process(es):	Air-Assisted Airless				
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils		
Viscosity:	1800 Centistoke	% Solids:	32	Flash Time:	15 minutes
Application:	Distance:	11 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi	
Recommended Tip(s):	517				

Name:	Urethane Enamel				
Process(es):	Air-Assisted Airless				
Coat(s):	1	Coat Thickness:	2.0 - 4.0 mils		
	2	Coat Thickness:	2.0 - 4.0 mils		
Viscosity:	1600 Centistoke	% Solids:	30	Flash Time:	15 minutes
Application:	Distance:	11 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 11 psi	Fluid Pressure:	800 - 1200 psi	
Recommended Tip(s):	517				

Name:	Wood Stain				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	1.0 - 3.5 mils		
Viscosity:	65 Centistoke	% Solids:	32	Flash Time:	15 minutes
Application:	Distance:	7 in.	Speed:	Normal	
Equipment:	Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A	
Recommended Tip(s):	1.2				



SIM Spray® Paint and Material Settings

Name:	Oil Based Polyurethane				
Process(es):	HVLP				
Coat(s):	1	Coat Thickness:	1.2 - 2.5 mils		
	2	Coat Thickness:	1.2 - 2.5 mils		
Viscosity:	90 Centistoke	% Solids:	50	Flash Time:	1 hour
Application:		Distance:	7 in.	Speed:	Normal
Equipment:		Air Pressure:	7 - 10 psi	Fluid Pressure:	N/A
Recommended Tip(s):		1.2			



SIM Spray® Paint and Material Settings

Structural:

Name:	Industrial Urethane Primer				
Process(es):	Airless				
Coat(s):	1	Coat Thickness:	2.5 - 5.0 mils		
Viscosity:	130 Centistoke	% Solids:	53	Flash Time:	15 minutes
Application:	Distance:	13 in.	Speed:	Normal	
Equipment:	Air Pressure:	N/A	Fluid Pressure:	1800 - 2300 psi	
Recommended Tip(s):	517				

Name:	Acrylic Polyurethane				
Process(es):	Airless				
Coat(s):	1	Coat Thickness:	3.0 - 6.0 mils		
	2	Coat Thickness:	3.0 - 6.0 mils		
Viscosity:	300 Centistoke	% Solids:	57	Flash Time:	15 minutes
Application:	Distance:	13 in.	Speed:	Normal	
Equipment:	Air Pressure:	N/A	Fluid Pressure:	1800 - 2300 psi	
Recommended Tip(s):	517				



SIM Spray® Paint and Material Settings

Blast:

Name:	VRSim Garnet			
Process(es):	Abrasive Blasting			
Blast Rate:	Moderate			
Application:	Distance:	21 in.	Angle Range:	15 - 45°

Name:	VRSim Plastic			
Process(es):	Abrasive Blasting			
Blast Rate:	Low			
Application:	Distance:	21 in.	Angle Range:	15 - 45°

Name:	VRSim Sodium Bicarbonate			
Process(es):	Abrasive Blasting			
Blast Rate:	Low			
Application:	Distance:	21 in.	Angle Range:	15 - 45°

Name:	VRSim Steel			
Process(es):	Abrasive Blasting			
Blast Rate:	High			
Application:	Distance:	21 in.	Angle Range:	15 - 45°



SIM Spray® Paint and Material Settings

Powder:

Name:	VRSim Powder			
Process(es):	Powder Coating			
Powder Delivery:	50 - 60%	Coat Thickness:	2.0 - 4.0 mils	
Application:	Distance:	10 in.	Total Air:	50 - 60 Nm ³ /h
	Current:	60k - 70k uA	Voltage:	65 kV