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## Material Processing & Handling Information

Material: PV 350 (VF 350)

Material Type: Fast Set Spray Polyurea Coating

**Application:** Concrete, Tile, Cement Block, Wood and other porous substrates

**Application Process:** High pressure heated equipment with impingement gun

Process Equipment:	Pumps	Dispensing Gun	
Graco:	EXP-1 (Electric) EXP-2 (Electric) EXP-3 (Pneumatic) H-XP2 (Hydraulic) H-XP3 (Hydraulic) H-VR (Hydraulic)	Fusion AP (Air Purge) Fusion MP (Mechanical Purge)	
Gusmer:	FF 2500 (Hydraulic) FF 3500 (Hydraulic) H-20/35 (Pro Hydraulic)	GX-7 400 (Mechanical Purge) GX-7 DI (Mechanical Purge) GAP Pro (Air Purge)	
GlasCraft	MX, MXII (Pneumatic) MH, MHII, MHIII (Hydraulic)	Probler (Air Purge)	
Process Temperature:	66°C (150°F) min, 71°C (160°F) max		
Process Pressure:	2,000 - 2,500 psi optimum (1,700 psi min, 3,500 psi max)		
Gel Time:	10 seconds		
Tack Free:	15 seconds		
Light Traffic:	60-120 minutes		
Full Cure:	7 days		
Moisture Content:	Calcium chloride test: 3 lb/24 hr/1,000 ft <sup>2</sup> Tramex concrete moisture meter: 5% maximum		
Application Temperature:  Dew Point:	-29°C (-20°F) and higher.  Note that <b>PV 350</b> will cure at these temperatures, but the effects from these conditions will impact the application in a variety of ways. It is recommended that material and equipment ambient temperatures be kept at 10°C (50°F) or above. Frozen concrete substrates with high moisture content will affect coating adhesion and long-term performance.  Substrate temperature must be -15°C (5°F) above dew point and rising before application of coating materials.		
Surface Prep:	Abrasive blast per ICRI Technical Guideline No. 03732 or SSPC SP13. Achieve a concrete surface profile of ICRI CSP-3 to CSP-5.		

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Surface contaminates:	Check for soluble salts on surfaces to be coated. Test with Chlor*Test. If amount of soluble salts exceeds recommended limits, treat with Chlor*Rid. Repeat process until acceptable limits are reached.	
	Maximum amount Chlorides	ts of soluble salts (micrograms per square centimeter): 3 immersion, 7 non-immersion
	Nitrates	5 immersion, 7 non-immersion
	Sulphates	10 immersion, 20 non-immersion
Substrate Parging:	aggregate. Recom	n honeycombing or concrete surfaces with large exposed nmended that the surface is rubbed or parged to eliminate Use Five Star Structural Concrete.
Surface Primer:	PV 30 (3 to 5 wet mils): Two-component epoxy and primer. Maximum overcoat time: 24 hours depending on environmental conditions.  PW-1 (4 to 6 wet mils): Single component primer. Maximum overcoat time: 24 hours, after which a light recoat is required (1 to 2 wet mils).	
Adhesion Testing:	Adhesion to concrete: Minimum 150 psi. Cohesive failure of concrete is optimum. Pull values will vary depending on concrete strength.	
Coating Application:	Coating thickness will vary depending on intended use, surface roughness and profile. The International Concrete Repair Institute (ICRI) has developed a standard for Concrete Surface Profile (CSP) ranging between (smoothest) and 9 (Roughest).	
		rt gives approximate minimum coating thickness to ous coating using the ICRI CSP standard.
	CSP-1 & CSP-2	45 – 55 mils
	CSP-3	55 - 60 mils
	CSP-4	60 – 65 mils
	CSP-5	65 – 70 mils
	CSP-6	70 – 75 mils
	CSP-7	75 – 80 mils
	CSP-8	80 - 85 mils
	CSP-9	85 – 90 mils

	Storage Temp	Storage	Special Handling
A Side	10°C (50°F) min 21°C (70°F) optimum	Keep dry. Keep from freezing. Store in covered temperature controlled environment if possible.	Use dry air desiccant for intake vent on drum.
B Side	10°C (50°F) min 21°C (70°F) optimum	Keep dry. Keep from freezing. Store in covered temperature controlled environment if possible.	Mix well with mixer to re- disperse any settled pigment.

**Safety:** Please consult product MSDS for full details.

Safety glasses, Rubber gloves, Protective clothing, Organic vapor or fresh air respirator.