



# PT1158

## White Room Temperature Epoxy Surface Coat

### DESCRIPTION

PT1158 is a white epoxy surface coat system that has very good handling and cured properties. It is a thin paintable viscosity material, so it applies easily and quickly, and it has sufficient thixotropy to hang on contoured or vertical surfaces. It can be applied quickly to large areas, and at the same time, it will pick up fine detail with ease. The cured product has tough, durable characteristics, for long dependable service. It can be sanded or scribed without chipping, and it withstands impact well. PT1158 is a good candidate for tooling or parts that require a good surface finish, tough cured properties and long term stability.

### PRODUCT SPECIFICATIONS

	PT1158 Part A	PT1158 Part B	ASTM Method
Color	White	Amber	Visual
Viscosity,	Thin Paste	1,400 cps	D2392
Specific Gravity, gms./cc	1.34	1.04	D1475
Mix Ratio	100 : 14		PTM&W
Pot Life, 4 fl.oz. Mass @ 77°F	18 - 19 minutes		D2471

### HANDLING and CURING

The mixed viscosity of the PT1158 system is quite thin, yet smooth and creamy. This allows it to be applied easily in a uniform layer over the model. With room temperature surface coats, the normal procedure is to apply two surface coats, allowing the first to firm up before applying the second coat. When constructing laminated tools, the two coats will allow the completed tool to be sanded or filed without breaking into the laminate and exposing fibers on the face of the tool. The surface coat will be cured sufficient for handling when the laminate is cured.

### PACKAGING WEIGHTS

	Quart Kit	Gallon Kit	Pail Kit	Drum Kit
PT1158 Part A	2.25 lb.	10 lb.	50 lb.	500 lb.
PT1158 Part B	.32 lb.	1.4 lb.	7 lb.	2 @ 35 ea.
Kit	2.57 lb.	11.4 lb.	57 lb.	570 lb.

**TYPICAL MECHANICAL PROPERTIES**

		PT1158 A/B	ASTM Method
Mix Ratio,	By Weight	100 : 14	PTM&W
Color		White	Visual
Mixed Viscosity, centipoise		Thin Thixotropic Paste	D2393
Pot Life, 4 fl. Oz. Mass, @77°F		18 - 19 minutes	D2471
Cured Hardness, Shore D		91 Shore D	D2240
Specific Gravity, grams, cc		1.29	D1475
Density,	lb./cu. Inch	.0468	D792
	lb. / gallon	10.8	
Specific Volume, cu. in./lb.		21.4	
Tensile Strength, psi		9,335 psi	D638
Elongation at Break, %		1.7 %	
Tensile modulus, psi		694,290 psi	
Flexural Strength, psi		9,659 psi	D790
Flexural Modulus, psi		702,411 psi	
Compressive Strength, psi		15,553 psi	D695
Glass Transition Temperature, DSC: T <sub>g</sub> (Peak))		230.3°F	D3418
Coefficient of Thermal Expansion, Range 50°C to 100°C		1.164 x 10 <sup>-4</sup> in./in./ °F	D696

**SAFETY and HANDLING**

PTM&W epoxy products are made from raw materials carefully chosen to minimize or even eliminate toxic chemicals, and therefore offer the user high performance products with minimum hazard potential when properly used. Generally, the PTM&W epoxy resins and hardeners will present no handling problems if users exercise care to protect the skin and eyes, and if good ventilation is provided in the work areas. However, breathing of mist or vapors may cause allergenic respiratory reaction, especially in highly sensitive individuals. As such, avoid contact with eyes and skin, and avoid breathing vapors. Wear protective rubber apron, clothing, nitrile rubber gloves, face shield or other items as required to prevent contact with the skin. In case of skin contact, immediately wash with soap and water, followed by a rinse of the area with vinegar, and then a further wash with soap and water. The vinegar will neutralize the hardener and lessen the chances of long term effects. Use goggles, a face shield, safety glasses or other items as required to prevent contact with the eyes. If material gets into the eyes, immediately flush with water for at least 15 minutes and call a physician. Generally, keep the work area as uncluttered and clean as possible, and clean up any minor spills immediately to prevent accidental skin contact at a later time. Keep tools clean and properly stored. Dispose of trash and empty containers properly. Do not use any of these types of products until Material Safety Data Sheets have been read and understood.

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**PTM&W Industries, Inc.**

10640 S. Painter Avenue Santa Fe Springs, CA 90670-4092

562-946-4511 800-421-1518 FAX: 562-941-4773

Visit Us At: [www.ptm-w.com](http://www.ptm-w.com)

Send Questions To: [info@ptm-w.com](mailto:info@ptm-w.com)