



PT1105

White Room Temperature Epoxy Surface Coat

DESCRIPTION

PT1105 is a white, general purpose room temperature epoxy surface coat resin. The creamy, smooth consistency of the mixed material allows easy application to the model surface with minimum drag. The thixotropic properties of PT1105 permits good coverage on points and sharp corners, and application to vertical surfaces without sagging. Due to the non-galling nature of PT1105, it will give good service in a variety of metal forming applications. When used with Part B hardener, the PT1105 system will cure quickly, and can be sanded or filed in 10 to 12 hours. The cured material is tough, with good chip resistance on edges and sharp details. PT1105 works very well in the fabrication of plastic faced plaster patterns when used with PT1105 B1 hardener.

PRODUCT SPECIFICATIONS

	PT1105-A	PT1105-B	PT1105-B1	Test Method
Color	White	Amber	Amber	Visual
Viscosity, @77°F, centipoise	Paste	300 cps	1500 cps	ASTM D23932
Specific Gravity, gms./cc	1.50	1.08	1.03	ASTM D1475
Mix Ratio, By Wt.		100 : 11	100 : 13	PTM&W
Pot Life, 4 fl. Oz. Mass @ 77°F		20 min.	18-20 min.	ASTM D2471

HANDLING and CURING

The mixed viscosity of PT1105 with both Part B hardeners is 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. With plastic faced plaster fabrication, the first surface coat is allowed to firm up (soft, but not sticky), then the second coat is applied, followed immediately with the wet plaster reinforcement applied to the wet epoxy for good bonds between the epoxy and plaster. The surface coat will be cured sufficient for handling when the laminate or plaster is cured.

PACKAGING WEIGHTS

	Quart Kit	Gallon Kit	Pail Kit
PT1105-A	3 lb.	12 lb.	55 lb.
PT1105-B	.33 lb.	1.33 lb.	6.25 lb.
PT1105-B1		1.56 lb.	7.25 lb.

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TYPICAL MECHANICAL PROPERTIES

These are typical cured properties when using PT1105 with either of the Part B hardeners.

	PT1105	Test Method
Color	White	Visual
Mixed Viscosity, @77°F, centipoise	Thixotropic Paste	ASTM D2393
Cured Hardness, Shore D	88 - 91 Shore D	ASTM D2240
Specific Gravity, grams, cc	1.25 - 1.27	ASTM D1475
Density, lb./cu. Inch	.0452 - .0459	ASTM D792
Tensile Strength, psi	6300 psi	ASTM D638
Flexural Strength, psi	7100 psi	ASTM D790
Compressive Strength, psi	15,300 psi	ASTM D695

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, all epoxy resins and hardeners can be irritating to the skin, and prolonged contact may result in sensitization; and 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, 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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