

# SWARCO PREFORMED THERMOPLASTIC EPOXY

## EPOXY ADHESIVE SYSTEM

### TECHNICAL INFORMATION



### PRODUCT SPECIFICATION

SWARCO Preformed Thermoplastic Epoxy is a two-component adhesive system required for use on all SWARCO Preformed Thermoplastic concrete applications and all SWARCO Preformed Thermoplastic Interstate Shields, Bike Lanes, Custom Logos and large mats. The SWARCO Preformed Thermoplastic Epoxy System, once combined, will cure at ambient temperature for approximately 45 minutes, the curing process is accelerated by the introduction of heat, required to properly install preformed thermoplastic. The Epoxy System is considered fully cured when it is no longer tacky to the touch.

SWARCO Preformed Thermoplastic Epoxy is available in gallons, quarts and 300 ml x 300 ml cartridges.

TYPICAL UNCURED PROPERTIES			
Property	Part A	Part B	Mixed
Color	Lt. Amber	Lt. Amber	Lt. Amber
Viscosity @ 25° C, cps	3,500	5,700	3,700
Weight per gallon, lbs	9.8	8.1	8.9
Specific Gravity @ 25°C	1.18	0.97	1.07
Gel time, minutes 4 gm mass @ 25°C	---	---	45
Tack free time, minutes 4 gm mass @ 25°C	---	---	60
Flash Point, PMCC, °C	166	99	---
Filler Type	None	None	None
Shelf Life (sealed in separate containers)	12 months	12 months	---

TYPICAL CURED PROPERTIES	
Test	Results
Hardness, Shore D	78
Impact Strength, ft. – lbs.	6.7

TYPICAL CHEMICAL RESISTANCE PROPERTIES		
Total Immersion In	Immersion Time, Days	% Weight Gain / Loss
Water	1/8	0.10 / 0.50
Ethyl Alcohol 50% Solution	1/8	1.34 / 9.90
Hydrochloric Acid (2N)	1/8	0.22 / 1.94
Sulfuric Acid, 30% Solution	1/8	0.16 / 1.56
Toluene	1/8	0.25 / 2.06
1, 1, 1 Trichloroethane	1/8	11.10 / 37.00
VM+P Naphtha	1/8	0.04 / 0.40

## MIXING RATIO

- **By Weight**                    100 Part A / 82 Part B
- **By Volume**                    100 Part A / 100 Part B

\* To obtain the best cured properties, accurate proportioning and thorough mixing are essential.

## STORAGE AND HANDLING

These materials should be stored in a dry environment within a temperature range of 16° C to 27° C (60° F to 80° F). Extremes of temperature beyond this range may result in crystallization or polymerization of the materials. The introduction of a nitrogen blanket into the containers before closing will improve the storage life of the products. A wide variety of cleaning solutions are available for cured and uncured epoxies and polyurethanes. For more information on proper recommendations and procedures, contact the Technical Department.

## SAFETY

These materials are intended for industrial use only, and the practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

Although the system contains low volatility materials, care should be taken in handling. Use adequate ventilation in the work area.

These materials may cause dermatitis in susceptible individuals. Keep off skin and out of eyes. In case of accidental skin contact, wash thoroughly with soap and water. In case of eye contact, flush eyes thoroughly with water and consult a physician immediately.

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy and completeness thereof is not guaranteed. Data is subject to alteration due to technical advances.

Above information not to be taken as a warranty or representation for which we assume legal responsibility. It is offered solely for consideration, investigation and verification.

If you have any questions about proper application techniques or other technical support issues, please contact your SWARCO sales or customer service representative.