SYNTHO-POXY™ OL
TWO-PART EPOXY COMPOUND

SYNTHO-POXY™ OL
TWO-PART EPOXY COMPOUND

Description

Syntho-Poxy™OL is an epoxy compound for the repair of oily, greasy and fuel contaminated metals and alloys in case of stress due to cracks, corrosion, abrasion, impact or chemicals. The degree of soiling does not affect the bonding with the structure of the soiled surface. This two-part epoxy compound can be used with either Slow Cure Part B (Yellow) or Fast Cure Part B (Red). Slow Cure Part B offers better technical data however Fast Cure Part B is best for emergency, quick non high-stressed repairs due to its extremely rapid cure time. After sealing a leak with Fast Cure Part B (Red), a second overlapping layer with Slow Cure Part B (Yellow) is recommended to achieve better technical data. Syntho-Poxy OL's high technical data, high chemical resistance along with its ability to bond with the structure of a dirty metallic surface make it suitable for repairing oily, pitted metal and steel surfaces that are subject to high pressures and temperatures. When fully cured, Syntho-Poxy OL produces a durable, resilient bond that is resistant to adverse environments and many solvents such as acids, caustic solutions, solvents, salts, and gases.

Mechanical Properties

Test	Method	Result
Compression Strength	DIN ISO 604	Slow Cure Part B (Yellow): 29,000 psi (2000 bar) Fast Cure Part B (Red): 13,485 psi (930 bar)
Lap Shear	ASTM D3163	Slow Cure Part B (Yellow): 4,495 psi (310 bar) Fast Cure Part B (Red): 2,755 psi (190 bar)

Product Information

Item #	Description
SPOLPT-A	Syntho-Poxy OL Part A (1 Pint)
SPPTS-B	Syntho-Poxy OL & SS Slow Cure Part B (Yellow)
SPPTF-B	Syntho-Poxy OL & SS Fast Cure Part B (Red)

Parts A & B sold separately.

Typical Applications

- Leak repair on oily surfaces
- Fills pits, voids, corrosion defects, dents, etc. to effectively transfer the load to the repair system
- Above or below ground

Use with the following repair systems:

- Syntho-Glass®XT & Viper-Skin™
- Thermo-Wrap™ & Thermo-Wrap™CF

Benefits

- Effectively transfers load from the pipe to the repair system
- Highest compression strength of any load transfer material on the market
- Reduces strain of the pipe by over 50% of conventional putty materials
- High bond strength reduces possibility of leaking under the repair

ims ISO 9001 certified
UKAS QUALITY MANAGEMENT 078

NRI
Innovative Composite Solutions
+1.561.683.6992 • NEPTUNERESEARCH.COM

SYNTHO-POXY™ OL
TWO-PART EPOXY COMPOUND

Physical Properties	Property	Typical Test Value
	Color:	Epoxy Base - Dark Gray
	Solids Content:	100%
	Storage Conditions:	Cool, dry place
	Shelf Life:	12 Months with recommended storage conditions
	w/ Slow Cure Part B (Yellow)	
	Service Temperature:	-238°to 536°F (-150° to 280°C)
	Color:	Hardener - Yellow
	Pot Life:	25 Minutes at 77°F (25°C)
	Set Time:	2 Hours at 77°F (25°C)
	Cure Time:	20 Hours at 77°F (25°C)
	Mix-Ratio(s):	20:1 by weight, 8:1 by vol
	w/ Fast Cure Part B (Red)	
	Service Temperature:	-238° to 248°F (-150° to 120°C)
	Color:	Hardener - Red
	Pot Life:	3-1/2 Minutes at 77°F (25°C)
	Set Time:	18 Minutes at 77°F (25°C)
	Cure Time:	40 Minutes at 77°F (25°C)
	Mix-Ratio(s):	5:1 by weight, 2:1 by vol

Warranty

©Neptune Research Inc. (NRI) NRI® and Syntho-Glass®XT are registered trademarks, while Viper-Skin™, Syntho-Poxy™OL, Thermo-Wrap™and Thermo-Wrap™CF are trademarks of NRI. NRI utilizes a process of continuous product improvement for all of our products. While we do strictly adhere to our products' specifications, we routinely implement product improvements. Therefore, please contact your local NRI distributor or office for the most current product specifications. NRI warrants the quality of this product when used according to directions. User shall determine suitability of product for use and assumes all risk. The seller will not accept liability for more than product replacement. Storage Conditions: The shelf life of Syntho-Poxy™OL is 12 months at 75°F (24°C). For best results, store in original, tightly closed containers in a cool, dry place out of direct sunlight. SPOL DS 094

SYNTHO-POXY™ OL
TWO-PART EPOXY COMPOUND