PRODUCT INFORMATION BULLETIN

B-FLEX 9400 SP SEALANT & LINING

enviroline
THICK-FILM EPOXY COATINGS AND LININGS

DESCRIPTION

B-FLEX 9400SP is a chemical resistant epoxy novolac polysulfide designed to be applied as a flexible base coat or lining for concrete or steel surfaces that experience movement due to physical, mechanical or thermal forces. **B-FLEX 9400SP** may be used as a joint or seam sealer in bolted or riveted steel tanks.

TYPICAL USE

Secondary containment structures, process floors, tank pads, drum storage areas, concrete tanks and pipes, basins and sumps, bolted steel tank bottoms, chine areas, sewer manholes, concrete sewage pipes, lift stations, wet wells, digesters, clarifiers, and other sub-grade concrete containment structures.

BENEFITS

- Superior bonding qualities
- Wide range of chemical resistance
- Provides 30 - 40% elongation
- High cohesive strength
- Excellent for sealing joints
- Resistance to thermal shock, wear and impact
- Crack bridging capabilities
- Temperature resistance

LIMITATIONS OF USE

Consult your Enviroline representative for specific recommendations.

TECHNICAL DATA

Weight (lbs/gal): 12.88
Volume Solids: 97%
Color(s): Tan
Flash Point: > 140° F
VOC (mixed lbs/gal): 0.27
VOC (mixed g/l): 32
Recommended Thickness: 40-60 mils DFT

Hardness (Shore D min.): 50
Pot Life (@75° F): 40 minutes
Pot Life (@100° F): 10 minutes
Adhesion to Concrete: >140 psi
Tensile Strength: 1200 psi
Elongation: 30 - 40%

Temperature Resistance:
Non-Immersion, Dry Heat: 200° F (93° C)
Continuous immersion temperature resistance is dependent on particular reagent exposure. Consult your Enviroline representative.

COVERAGE

Theoretical Coverage*: 1555 sq. ft per gallon @ 1 mil dry
@ 40 mils: 38 sq. ft. per gallon
@ 60 mils: 25 sq. ft. per gallon

**When ordering product, make allowances for any loss due to overspray, surface irregularities, etc. (approx. 15 – 20%). Solvent evaporation causes some shrinkage.*

MINIMUM DRY TIME

Coating 100°F, ambient 77°F and 50% relative humidity, ASTM D 1640:
To Touch: 2-3 hours
To Handle: 4-5 hours
To Recoat: 6-7 hours

Maximum Recoat: 3 days

CURE SCHEDULE

Shore D minimum 50, ambient 77°F and 50% relative humidity:
For Immersion Service: 4 days

SURFACE PREPARATION

All surfaces must be clean and dry, free of dust, dirt, oil or other foreign matter. Steel surfaces shall be abrasive blasted to a minimum SSPC SP-10/Nace No. 2 or Swedish Standard Sa 2½, Near White Metal finish with a minimum 3 – 5 mil angular profile for best results. Concrete shall be abrasive blasted or etched with 10% muriatic acid. Enviroline 54 or 58 Primer is recommended for concrete surfaces. See Enviroline Technical Services Department for additional information.

APPLICATION EQUIPMENT

Plural component equipment is highly recommended for application. Utilize a pump with a 1:1 mix ratio and GRACO 45:1 or greater power ratio. Also needed are two 9¼" long x 3/8" inside diameter x 12 element static mixers which are available from Graco. Heated tanks and heated lines up to 150° F may be necessary. The resin fluid line should be 1/2" ID minimum, the hardener fluid line should be 3/8" ID minimum, and the high pressure solvent fluid line should be 1/4" ID minimum. A reversible tip (.031-.043) is suggested. Keep in mind that plural component application requires volumetric check of the mix ratio (utilizing a ratio monitoring system) before and during the application process. Any variation in the color of product during application will indicate the plural pump is off ratio. For more information contact Enviroline Technical Service Dept.

Airless spray equipment (GRACO 45:1, 56:1 or higher recommended) may also be used if the pot life is carefully monitored. Remove suction tube and place lower assembly in 5 gal. pail. Smaller areas may be trowel applied. Hoses should be 1/2" ID minimum (no longer than 150 ft.), ending with a 10 ft. 3/8" whip hose. A reversible tip (.031-.043) is suggested. Pressure at the pump should be 100 psi or maximum recommended by equipment manufacturer. Teflon type packings are recommended and available from the pump manufacturer. Keep in mind that airless spray application requires stopping periodically to flush the lines with methyl ethyl ketone (MEK) or methyl isobutyl ketone (MIBK).

MIX RATIO

1:1

APPLICATION CONDITIONS

Apply at 5° F (3° C) above dew point. Use the following chart for preferred temperature and humidity conditions. These conditions plus adequate ventilation must be maintained throughout the curing cycle. Substrate temperature must be at or above 55°F throughout cure.

	Substrate	Ambient	Humidity
Preferred	75-120° F	70-100° F	N/A
Minimum	55° F	55° F	5° above dew point

HANDLING

Store at moderate temperatures (65-85° F) prior to application for ease of handling and mixing.

THINNING

Not recommended for **B-Flex 9400SP**.

PRE-HEATING

For plural application, viscosity of the resin and hardener varies. For best results, heat resin side to max of 130° F and heat hardener side to max of 100° F. For airless application, heat each component to 90-95° F prior to mixing.

MIXING

For plural component application, pre-mix each component one minute; then use two 9¼" long x 3/8" inside diameter x 12 element static mixers during the application process. For airless spray application, mechanically pre-mix each component one minute; then mix combined compound with mechanical mixer at 400-600 rpm for 3 to 4 minutes. Enviroline custom designed mixing blade is recommended.

CLEAN UP

Clean immediately with methyl ethyl ketone (MEK) or methyl isobutyl ketone (MIBK).

PACKAGING

One unit forms approximately 4 gallons consisting of two components:
Resin: 5 Gallon Pail **Hardener:** 2 Gallon Pail

Also available in 55 gallon drums. Please consult our Technical Services Department for additional information.

SHELF LIFE

2 years when stored at 75° F (24° C) unopened.

SHIPPING

F.O.B. Pompano Beach, Florida for domestic shipments, Ex-Works Pompano Beach for international shipments.

SAFETY

This product is for industrial use only and should be installed by qualified coating and lining specialists. Consult Material Safety Data Sheets for important health and safety information prior to use.

02/08*

**Enviroline continuously strives to improve its data sheets for the benefit of all users. The owner/applicator is responsible for obtaining the most recent Product Information Bulletin prior to the purchase or application of material.*