ARCOR
EPOXY TECHNOLOGIES

Product Data Sheet
ARCOR SLR-50

REVISED 04/2024

GENERIC TYPE: AMINE CURED 100% SOLIDS EPOXY / Epoxy/Urethane Hybrid.

DESCRIPTION AND RECOMMENDED USES: ARCOR™ SLR-50 is a high elongation, elastomeric, hybridized epoxy/urethane. It is designed as a high resilience, high tear resistant, high impact resistant coating that is ideal to combat cavitation and abrasion, and it is completely compatible with epoxy coatings. The urethane aspect delivers a tough, flexible resilience while the epoxy aspect provides improved water and chemical resistance and shelf stability. ARCOR™ SLR-50's epoxy reactivity eliminates the moisture sensitivity and toxicity associated with traditional urethanes. ARCOR™ SLR-50 is a viscous coating, and is easily applied by brush, roller, cartridge sprayer, plural component spray, up to 50 mils without slump.

FOR INDUSTRIAL USE ONLY

SPECIFICATION DATA

TEMPERATURE: Immersion service
Max.150ºF (66ºC); Spike to 180ºF(82ºC) (3 hrs)
Dry: 325ºF(163ºC)

CHEMICAL RESISTANCE:

Water:	**Excellent**
Alkalies:	**Excellent**
Inorganic Acids:	**Good**
Organic Acids:	**Good**
Organic Solvents:	**Good**

FILM THICKNESS: up 50 mils vertical

ABRASION: Excellent
Hardness Shore A: 90 A
Impact Resistance, Direct: 400 in-lbs

FLEXIBILITY: Excellent

Elongation: 300%

APPLICATIONS: Cavitation Protection, Abrasion Protection, Concrete & Steel Flooring & Work Areas, Manways. Decking. Water Box /Tube Sheet Expansion Joints, Crack Repair, Abrasion Protection, Cavitation Protection, Concrete

SOLIDS BY VOLUME: 100%

VISCOSITY: 40,000-80,000 cps

POT LIFE: 35 MIN/Gal @ 72ºF

MIX RATIO: 2:1 by Volume (Base:Activator)
100 gm: 50 gm by Weight

COLOR: Gray, Blue, Black, Red

SHELF LIFE: 5 Years at 55-95ºF (13-35ºC)

COVERAGE: 80 ft2(7.4 M2)/gal(theoretical at 20 mils);

WEIGHT PER GALLON: 10.8 lbs (4.89 KG)

ORDER INFORMATION: To place orders and/or obtain pricing information contact:

ARCOR by Novolac Epoxy Technologies Inc.
Sales@ArcorEpoxy.com
TEL: 508-385-5598;

Manufacturer makes no warranty either expressed or implied including warranties of merchantability or fitness for a particular purpose for this product. Under no circumstances will the manufacturer be liable for incidental, consequential or other damages, breach of warranty, strict liability, or any other theory arising out of use of this product.

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SEE MATERIAL SAFETY DATA SHEET BEFORE HANDLING THIS PRODUCT

SURFACE PREPARATION:
Steel surfaces are to be abrasive blasted with chloride free abrasive. Exterior applications to SSPC SP-6 commercial gray metal finish. Immersion applications to SSPC SP-6 white metal 3 to 5 mil profile. Grind all burrs, weld seems, radius sharp edges. SLR-50 is self-priming. As needed, fresh blasted surfaces to be primed immediately with ARCOR™ S-30 Prime to prevent oxidation of surface.
Concrete surfaces should be degreased if oil and grease contamination is present. Degreased surface shall be high pressure washed, acid etched and high pressure washed again so surface is clean and free of all grease and oils and surface laitance. Existing coatings should be abrasive blasted to clean concrete. SLR-50 is self-priming. But, if needed, Prime with ARCOR™ EE-80, ARCOR™ EE-10.

MIXING:
Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade scraping sides and bottom of container or mixing board. Mix by Volume 2 part Base to 1 part Activator. Or by weight 100 gm Base to 50 gm Activator. Mix thoroughly to produce an even colored and streak-free material.

THINNING: Never thin.

APPLICATION:
By brush use medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating. Trim or tape to <1" nap.
Roller use good quality 3/8" nap.
Plural Spray use .029-.38 tip, 3,000-3,500 PSI, Heat to 130ºF Base, 110ºF Activator.
Cartridge Spray; Heat to 125-135F. Shake vigorously before installing into cartridge gun.
Airless Spray use : Consult ARCOR
Conventional Spray: Not Recommended
All spray equipment should employ traps to prevent water and oil from contaminating coating and screens to prevent particulate contamination.

APPLICATION TEMPERATURE:
Material: Keep between 55 to 95ºF(17 to 35ºC). Substrate: Keep between 45 to 105ºF(7 to 40ºC). The difference in temperature of the substrate and the material should never exceed 10ºF(5ºC). Substrate shall be a minimum of 5ºF(3ºC) above dew point. Do not apply if relative humidity exceeds 90%. If necessary heat metal prior to surface preparation using electric heater or heat lamp. Never use gas, oil or kerosene heaters as they will leave a greasy residue on metal surface. For best results keep all material in warm area overnight (72ºF+, 22ºC) for ease of mixing. If necessary, base component of material can be heated by microwave for 30-45 seconds for a 1 KG Base unit or by warm water bath. Heat activator by warm water bath only. If necessary let material cool before application.

OVERCOAT / CURE TIME:
Recoat between 1 and 12 hours at 77ºF (25ºC).Add 1 day additional cure time for each 10ºF below 77ºF. Subtract 15 hours of cure time for each 10ºF above 77ºF. Full cure before immersion 72 hours at 77ºF. Force Cure: 12 hours at 120ºF (49ºC).

CLEAN UP: Clean tools immediately after use with M.E.K. or similar. 98% Isopropyl Alcohol can be used in solvent restricted areas.

WARNING: Base contains epoxy resin. Activator contains alkaline amines, a strong sensitizer. May cause skin irritation, sensitization or other allergic responses. Use with good ventilation, particularly if heated or sprayed. Prevent all contact with skin or eyes. Wear protective clothing, goggles, gloves or barrier creams. Keep containers closed when not in use. Wash thoroughly after handling. In case of skin contact immediately wash with soap and water. In case of eye contact, flush with water for 15 minutes. If irritation persists seek medical attention.