ARCOR
EPOXY TECHNOLOGIES

ProductDataSheet

ARCOR™ S-16

REVISED 5/2024

GENERIC TYPE: AMINE CURED 100% SOLIDS EPOXY PRIMER, TOPCOAT

DESCRIPTION AND RECOMMENDED USES:
ARCOR™ S-16 is a solvent free epoxy coating designed as a protective coating for metals in immersion service. ARCOR™ S-16 produces a tough, chemical resistant, flexible coating that is ideally suited for aggressive water service (salt, brackish). Enhanced by multi-functional chemistry the ARCOR™ S-16 is a fine multipurpose coating suited for moderate acid and caustic service, excellent in all water environments. A fine general use epoxy.
S-16 is **NSF 61 & AS/NZS 4020:2018** Approved in Testing for use in contact with Potable Water; **USDA** for Incidental Food Contact in Meat & Poultry Production. **FDA** Guideline CFR 21 Section 175.300 for Repeated Food Contact use.

FOR INDUSTRIAL USE ONLY

SPECIFICATION DATA

TEMPERATURE: Immersion service
Max.150ºF(65ºC); Spike to 190ºF(88ºC) (3 Hrs)

CHEMICAL RESISTANCE:
Water: Excellent
Alkalies: Very Good
Inorganic Acids: Good
Organic Acids: Fair
Organic Solvents: Good

ABRASION: Very Good

FLEXIBILITY: Good
Very Good with Fiberglass Mat; 1.5 oz/ft2 (.5 KG/M2)

FILM THICKNESS: 15-20 mils/coat,
(.35-.50 mm) Immersion: 2 or 3 coats

APPLICATIONS: Condensers, Heat Exchangers, Circ. Pipe, Water Screens, Pumps, Impellers, Filters, Valves, Hydro Wheels, Tank Linings, Ion Exchange Filters Excellent Flexibility.

SOLIDS BY VOLUME: 100%

VISCOSITY: 130,000 - 260,000 cps

POT LIFE: 30 MIN/Gal @ 72ºF

MIX RATIO: 2:1 by Volume (Base:Activator)
100 gm :33 gm by weight

COLOR: Blue; White, Red, Gray

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

COVERAGE: 80 ft^2 (7.5 M^2)/gal(theoretical) @ 20mils

WEIGHT PER GALLON: 12.6 LBS (5.72 KG)

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

ARCOR® by
Novolac Epoxy Technologies Inc.

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SEE MATERIAL SAFETY DATA SHEET BEFORE HANDLING THIS PRODUCT

SURFACE PREPARATION:
Steel surfaces: Always abrasive blast with chloride free abrasive. Exterior applications to SSPC SP-10 Near White metal finish. Immersion applications to SSPC SP-5 White metal. Grind flat all burrs, weld seams, radius sharp edges. Fresh blasted surfaces to be primed with ARCOR™ S-30 Prime or ARCOR™ S-16 only in NSF, USDA or FDA Applications.

Concrete surfaces : Not Recommended for hand or roller application. Apply by heated plural or cartridge spray. Concrete surfaces should be degreased if oil and grease contamination is present. Degreased surface shall be high pres- sure washed, acid etched and high pressure washed again so surface is clean and free of all grease, oils and surface laitance. Existing coatings should be abrasive blasted to clean concrete. Prime with ARCOR™ S-16 only for potable water NSF, USDA or FDA Applications; As needed prime with EE-70, EE-79, EE-80 or EE-10.

MIXING:
Thoroughly mix Activator into Base with mixing stick or drill with low speed mixing blade. Mix by Volume 2 parts Base to 1 parts Activator. Or by Weight 100 gm Base to 33 gm Activator.

THINNING: Never thin.

APPLICATION:
Brush: medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating (epoxy glued bristles are best). Trim or tape to <1" nap.
Roller: use good quality 3/8" nap.
Cartridge Sprayer: Heat to 130-140F. Shake vigorously before inserting into sprayer. Heat by microwave or water bath.
Plural Spray: .029-.035 RAC tip, 2,500-3,500 PSI, Heat to 160ºF Base, 110ºF Activator.
Airless Spray: use .029-.035 RAC tip, 4,000-5,000 PSI (55:1+). Recommended only with in-line heater at 120º to 135ºF. (Caution: Short Pot-Life). *Consult ARCOR.*
Conventional Spray: Not Recommended
All spray equipment should employ traps to prevent water and oil from contaminating coating and 30 mesh screens prevent particulate contamination.

APPLICATION TEMPERATURE:
Material: Keep between 55 to 95ºF(13 to 35ºC). Substrate : Keep between 45 to 105ºF (7 to 40ºC). The difference in temperature of the substrate and the coating should never exceed 10ºF (5ºC).

OVERCOAT / CURE TIME:
By Brush or Roller recoat between 6 and 8 hours at 72ºF (22ºC).
When spraying recoat between 5 and 8 hours. Full cure before immersion 3 Days at 72ºF. Force Cure: 12 hours at 120ºF (49ºC)**.**

CLEAN UP: Acetone, M.E.K, Isopropyl Alcohol (98-100%). or similar.

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. Consult the Product Safety Data Sheets (SDS) BEFORE USE!

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