ARC SC-3900

Aromatic Elastomeric **Coating**

USGBC LEED, EQ Credit 4:
Low-emitting VOC Compliant Materials

Description

ARC SC-3900 is a fast-set, spray applied, two component elastomeric that is 100% solids andcontains Zero VOCs. It is highlighted by:

- √ Excellent corrosion protection and chemical resistance
- √ Excellent impact resistance even in sub-freezing weather
- √ High abrasion resistance for harsh environments
- √ Seamless monolithic waterproof membrane that is tough and durable
- √ Odorless, non-toxic vapors
- √ UL certified ANSI/NSF 61 in specific colors

Application Recommendations

ARC SC-3900 adheres extremely well to properly prepared metal, wood, concrete, fiber glass, and other various metal surfaces.

ARC SC-3900 must be applied through a two component, high pressure proportioning unit. Material and hoses should be heated to 150°F, with pressure at a minimum of 2200 psi.

Properties of Components

Property	A side	B side
Viscosity	350 cps	650 cps
Gel time	11 seconds	
Tack free time	22 seconds	

Physical Properties

Property	Value
Hardness, D-2240	D 52
Tensile strength, D-412	3850 psi
100% Modulus, D-412	1460 psi
200% Modulus, D-412	1960 psi
300% Modulus, D-412	2650 psi
Tear resistance/DIE-C, D-624	570 pli
Ultimate elongation, D-412	425 %
Taber Abrasion, mg loss CS17	17.0
Flexibility, 1/8" mandrel	Pass

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

Mixing Instructions: Agitate resin blend (B) component thoroughly with a drum mixer before use to disperse pigment and assure homogeneity. Do not thin. Do not agitate in air and moisture.

Consult a Technical Representative regarding specific metal/steel surface preparation and priming requirements.

Packaging, Storage & Shelf Life

ARC SC-3900 is available in 5 gallon pails, 55 gallon drums, and 275 gallon totes. It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months in factory sealed containers.

Safety

ARC SC-3900 is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or fresh air hood. Spraying indoors requires forced ventilation. Be sure to read SDS in its entirety prior to use.

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Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Minimum recommended surface preparation:

Steel: Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (3 mils / 75 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs, as required.

Concrete & Masonry: SSPC-SP13/NACE 6 or ICRI No. 310.2R-2013, CSP 3-5. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with recommended repair material.

Moisture content: Use calcium chloride test: 3 lb./24 hr./1,000 ft^2. Concrete shall be 5% maximum as per ASTM F2170 & ASTM F2420. Substrate and air temperature must be 5°F above dew point and rising before material application.

Check for soluble salts on surfaces to be coated. If amount of soluble salts exceeds recommended limits, treat accordingly. Repeat process until acceptable limits are reached. Maximum amounts of soluble salts (micrograms per square centimeter): Chlorides - 3 immersion, 7 non-immersion. Nitrates - 5 immersion, 10 non-immersion. Sulfates - 10 immersion, 20 non-immersion.

If required, holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.