

APPLICATION INSTRUCTIONS: ARC S2

Surface Preparation

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, expected service life, and the initial substrate conditions.

All sharp edges and welds shall be ground smooth or to a 3 mm (120 mils) radius before abrasive blasting. Optimum preparation will provide a surface cleaned of all contaminants and roughened to an angular profile between 75-125 µm (3-5 mils). This is normally achieved by initial cleaning and degreasing and then abrasive blasting to a cleanliness of White Metal (Sa 3/SSPC-SP5) or Near White Metal (Sa 2 ½ / SSPC-SP10), followed by removal of residual abrasive blast residues from the surface to be coated.

To facilitate mixing and application, material temperatures should be between 21°- 32°C (70°-90°F). Each kit is packaged to the proper mix ratio. If further proportioning is required, the kit should be divided according to the mix ratios:

Mix Ratio	By Weight	Volume
A: B	2.3:1	2.0 : 1

Prior to mixing ARC S2, pre-mix Part B to suspend any settled reinforcements. When mixing by hand, add Part B to Part A. Mix until product is uniform in color and consistency, with no streaks. Power mixing should be accomplished with a variable speed, high torque, and low speed mixer with a nonair entraining mix blade such as a "Jiffy" blade. Do not mix more product than can be applied within the stated working time.

Working Time - Minutes

	10°C	16°C	25°C	32°C
	50°F	60°F	77°F	90°F
2 kg	40 min.	25 min.	20 min.	10 min.
12 kg	25 min.	20 min.	15 min.	10 min
15 Liter	20 min.	17 min.	12 min.	8 min.

This chart defines the practical working time of ARC S2, starting from when mixing begins.

Application

ARC S2 may be applied by spray system, brush, or roller using a lint free short nap roller such as mohair. When applying ARC S2 the following conditions should be observed: Film thickness range per coat should be from: 170 µm (7 mils) to 380 µm (15 mils). ARC \$2\$ is normally applied in a minimum of two coats in alternate colors. Application temperature range should be between 10°C (50°F) - 35°C (100°F). ARC S2 may be spray applied by airless spray equipment without solvent dilution; consult ARC Technical Bulletin 006 for equipment guidelines. If using 1125 ml cartridge preheat cartridge to 50°C (120°F) prior to inserting in SULZER MixPak® gun. Adjust atomizing and feed air as required to achieve desired spray pattern.

When spraying, apply initial pass at 75 -125 µm (3-5 mils). Build successive passes to achieve the first coat recommended thickness. Vertical or overhead applications may result in reduced film thickness. To compensate additional coats may be required.

Multiple coat applications of ARC S2 may be accomplished, without additional surface preparation, as long as the film is free of contamination and has not cured beyond the stage stated as Overcoat End in the Curing Schedule chart below. If this period is exceeded, light abrasive blasting or sanding is required to be followed by removal of any abrasive residues.

Thickness	Unit size	Coverage	Formulas to calculate kilograms required
375 μm (15 mils)	1125 ml Cartridge	3 m ² (32 ft ²)	1,6 x Area (m²) x Average Thickness (mm) = kg
	2 kg	3.3 m ² (35.8 ft ²)	3.8 x Area (ft²) x Average Thickness (inches) = kg
	12 kg	20 m² (215.2 ft²)	
	15 liter	40 m² (430.5 ft²)	

Curing Schedule

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	10°C	16°C	25°C	32°C
	50°F	60°F	77°F	90°F
Tack Free	6 hrs.	3 hrs.	2 hrs.	1 hrs.
Light Load	24 hrs.	18 hrs.	10 hrs.	5 hrs.
Overcoat End	40 hrs.	30 hrs.	20 hrs.	10 hrs.
Full Load	60 hrs.	48 hrs.	24 hrs.	14 hrs.
Full Chemical	120 hrs.	96 hrs.	48 hrs.	24 hrs.

To force cure, allow material to reach Tack Free cure stage and heat to 65°C (150°F) for a minimum of 6 hours.

Clean Up

Use commercial solvents (Acetone, Xylene, Alcohol, Methyl Ethyl Ketone) to clean tools immediately after use.

Once cured, the material would have to be abraded off.

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area.

Follow standard confined space entry and work procedures, if appropriate.

Shelf life (in unopened containers): 2 years [when stored between 10°C (50°F) and 32°C (90°F) in dry, cool, covered facility]

