

Surface Preparation

Proper surface preparation is critically important for the long term performance of the ARC 797(E).

The prepared concrete surface must be structurally sound, with contaminants thoroughly removed and roughened to > an ICRI CSP 3 profile (similar to #60 grit sandpaper finish). With ARC 797(E) Primer, the surface may be damp, but not wet i.e. no free standing water.

A **vapor barrier** is required for *slab-on-grade* applications. If no vapor barrier is present, it is essential to check for vapor transmission.

Surface Cleaning & Profiling Methods:

Hydro-blasting	Scarifying	Scabbling
Steel shot-blasting	Dry abrasive blasting	Grinding

Specific to Old Concrete:

Remove all surface contaminants thoroughly, including:

Old coatings	Dust	Laitance
Soluble salts	Loose concrete	Hydrophobic Contaminants

Remove grease, oils, and grime by washing the concrete surface with an emulsifying alkaline, water-base cleaner; rinse thoroughly. Employ one or more of the Surface Cleaning Methods listed above.

Specific to New Concrete

Allow a minimum of 28-day cure of new concrete before preparation.

Employ one or more of the Surface Cleaning Methods listed above.

Mixing

The 797(E) Primer components are pre-measured in proportion as per the correct product mix ratio.

Add Part-B to Part-A, and mix thoroughly, until clear.

Working Time/Potlife

	10°C	16°C	25°C	32°C
	50°F	60°F	77°F	90°F
ARC 797(E) Primer	65 min.	40 min.	30 min	18 min.

Application

- ARC 797(E) can be used as a stand-alone sealer in a multi-coat application or as a primer for other ARC coatings with the exception of NVE System Kit or NVE Veil Coat
- For vertical substrates and applications where concrete is very porous, it may be necessary to double prime the area by applying two coats as wet-on-wet.
- Apply ARC 797(E) uniformly to a wet film thickness of 175-250 µm (7-10 mil), using a brush, roller, squeegee or spray to the freshly prepared concrete surface. Do not allow pooling of primer to occur.
- If top-coating or using in a multi coat application do not prime more surface area than can be top coated within 4 hours depending on ambient conditions.

- Apply all mixed primer before the end of the working time based on the chart below.
- To reduce the chance of vapor outgassing/blistering, the 797(E) should not be installed while the concrete's temperature is rising. In outdoor applications, it is best to install in the evening or at night to avoid this problem.
- Prior to its light load cure state, ARC 797(E) may be overcoated with any of the ARC epoxy materials with the exception of ARC vinyl ester based coatings..

Coverage/Spreading

Thickness	Unit size	Coverage
250 µm (10 mil)	16 liter	64.00 m ² (688.90 ft ²)

Curing Schedule

	10°C	16°C	25°C	32°C
	50°F	60°F	77°F	90°F
Tack Free	9 hrs.	8 hrs.	7 hrs.	6 hrs.
Light Load	36 hrs.	30 hrs.	24 hrs.	18 hrs.
Overcoat End	50 hrs.	40 hrs.	34 hrs.	24 hrs.
Full Load	96 hrs.	84 hrs.	72 hrs.	36 hrs.
Full Chemical	9 days	8 days	7 days	6 days

Full chemical properties can be achieved rapidly by force curing. To force cure, first allow the material to become tack free, and then heat to 70°C (158°F) for 4 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.

Safety

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]