

## General Instructions

- Proper surface preparation is critically important for the long term performance of this system.
- The prepared concrete surface must be structurally sound, free from all contaminants and roughened to > an ICRI CSP 3 profile (similar to #60 grit sandpaper finish). With 797(E) Primer, surface may be damp, but not wet i.e. no free standing water.
- A vapor barrier is required for slab on grade application. If no vapor barrier is present, it is essential to check for vapor transmission.
- For detailed information on surface preparation and application, please refer to ARC Application Procedures for Concrete or contact your ARC specialist.

## Surface Cleaning Methods

Hydro-blasting	Scarifying
Steel shot-blasting	Scabbling

## Specific to Old Concrete:

- Remove all surface contaminants completely including

Old Coatings	Dust	Laitance
Soluble Salts	Loose Concrete	

- Remove grease, oils, and grime by washing the concrete surface with an emulsifying- alkaline, water-base cleaner.
- Employ one or more of the “Surface Cleaning Methods” listed under General Instructions.

## Specific to New Concrete:

- Allow minimum of 28 day cure of new concrete before preparation.
- Employ one or more of the “Surface Cleaning Methods” listed under General Instructions.

## ARC 988(E) System Kit - Mixing

### ARC 797 Primer System Kit: Mixing and Application

#### Step-1 (Mixing)

- Each system kit contains a 2-component primer (ARC 797(E))
- Primer kit is of pre-measured Part-A & Part-B in proportion as per product mix ratio.
- Add Part-B to Part-A and mix thoroughly.
- Properly mixed primer should be clear & not cloudy/hazy.

#### Step-2 (Application)

- Apply the Primer 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.
- Do not prime more surface area that can be top coated within 4 hours, depending on ambient conditions.
- For vertical substrates and applications where concrete is very porous, double prime the area by applying two coats as wet-on-wet.

**NOTE:** Refer to chart — “Working time”— relative to ambient temperature at the time of application. To reduce the chance of vapor blistering or disbondment, the ARC 988(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.

## Coverage / Spreading

Thickness	Unit size	Coverage
6 mm (240 mil)	System Kit	4.10 m <sup>2</sup> (44.13 ft <sup>2</sup> )
6 mm (240 mil)	Bulk Kit	16.70 m <sup>2</sup> (180.00 ft <sup>2</sup> )

## Working Time - Minutes

	10°C	16°C	25°C.	32°C
	50°F	60°F	77°F	90°F
ARC 797 Primer	65 min.	40 min.	30 min.	18 min.
ARC 988(E) Top Coat	NR	50 min.	40 min.	20 min.

NR = Not Recommended.

“Working time” begins when mixing is initiated.

### ARC 988(E) Top Coat – System kit : Mixing and Application

- To facilitate mixing and application, all material temperatures should be between 21°- 32°C (70°-90°F) prior to mixing.
- Premix Part A to disperse pigments. Thoroughly mix Top Coat Part A and Part B in a suitable pail, using a slow speed mixer.
- Next transfer the blended resins to a mortar mixer and gradually add in 3 bags of QRV reinforcement. Total mixing time should be a minimum of 3 minutes or until uniformly blended.
- ARC 988(E) should be applied shortly after application of primer. The primer must still be tacky prior to applying ARC 988(E); otherwise the area must be reprimed. This is normally within 4 hours of application, depending on ambient conditions.

ARC 988(E) should be applied at a minimum thickness of 6 mm (240 mil). Minimum application temperature is 16°C (60°F), although application will be easier at 25°C (77°F).

## ARC 988(E) Bulk Kit - Mixing

Please follow the ARC 988(E) Bulk Kit packaging mix instructions (provided separately with Bulk Kit package).

## Application

- Distribute ARC 988(E) on the floor surface using screed guides and rigid bar, or screed box, not exceeding 1,2 m (4 ft) wide.
- Apply a minimum of 6 mm (240 mil) and finish the surface using steel trowels.
- **IMPORTANT:** During application, press ARC 988(E) firmly onto the substrate to promote contact with the primer and to ensure compaction. Trowel finish surface to desired texture.
- Remove all trowel marks and unevenness before the end of “Working Time” (see chart).
- All non-moving horizontal cracks must be pre-filled with ARC 797(E) and fiber mesh. All vertical cracks must be pressure injected with a suitable injection system. All pre-existing joints must be respected.

## Curing Schedule

	10°C	16°C	25°C.	32°C
	50°F	60°F	77°F	90°F
<b>Foot Traffic</b>	NR	5 hrs.	2 hrs.	1.5 hrs.
<b>Light Load</b>	NR	8 hrs.	4 hrs .	3 hrs.
<b>Full Load</b>	NR	34 hrs.	13 hrs.	8 hrs.
<b>Full Chemical</b>	NR	14 days	12 days	5 days

NR = Not Recommended.

Cure times based on substrate temperature at DFT of 6 mm (240 mil).

## 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 mechanically abraded.

## Safety

Before using any products, always review the appropriate Safety Data Sheets (SDS) or appropriate 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]**