

**100% solids, high-build, quartz (SiO<sub>2</sub>) reinforced, highly chemically resistant, modified epoxy coating that can bond to damp concrete, concrete resurfacer. ARC 791(E) industrial coating is designed to:**

- Resurface concrete damaged by chemical attack or mechanical stress
- Replace acid resistant tiles, epoxy mortars, fiberglass, and conventional overlays
- Bond to damp concrete, making substrate impermeable for aggressive chemicals
- Apply to vertical substrates at nominal dft of 6 mm (240 mil) using ARC 797(E) primer
- Easily apply by trowel

## Application Areas

- Acid and alkali spill areas
- Bottling lines
- Equipment bedding
- Pump bases/grouting
- Wastewater treatment
- Concrete tanks/sumps
- Food processing plants
- Trenches and drains
- Structural support columns
- Tile repointing

## Packaging and Coverage

Nominal, based on a 6 mm (240 mil) thickness

- System Kit covers 4.10 m<sup>2</sup> (44.13 ft<sup>2</sup>)

Contains:

- 1 x ARC 797(E) primer pack
- 1 x ARC 791(E) resin pack
- 3 bags of QRV reinforcement

- Bulk Kit covers 16.70 m<sup>2</sup> (180.00 ft<sup>2</sup>)

Contains:

- 1 x ARC 797(E) Bulk kit primer pack
- 1 x ARC 791(E) resin
- 1 x ARC 791(E) curing agent
- 12 bags of QRV reinforcement

Note: Components are pre-measured & pre-weighed.

Each kit includes mixing and application instructions plus tools.

Colors: Gray



## Features and Benefits

- **Fine, textured and resistant to wide range of chemicals**
  - Covers a broad range of chemical exposures
- **Coefficient of thermal expansion comparable to concrete**
  - Resists cracking & delamination
  - Longer life
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
  - Serves demanding applications
- **Bonds to dry or damp concrete**
  - Saves time and versatile
- **Reinforcement coupling agent minimizing coating voids**
  - Permeation resistant
  - User-friendly consistency
- **Adhesion exceeds cohesive strength of concrete**

## Technical Data

Composition	Matrix	A compounded epoxy resin reacted with modified aliphatic amine curing agent	
	Reinforcement	Densely packed proprietary quartz pretreated with polymeric coupling agent	
Cured Density		2.2 gm/cc	137 lb/ cu.ft.
Compressive Strength	(ASTM C 579)	644 kg/cm <sup>2</sup> (63 MPa)	9,160 psi
Tensile Strength	(ASTM C 307)	149 kg/cm <sup>2</sup> (14.6 MPa)	2,126 psi
Flexural Strength	(ASTM C 580)	281 kg/cm <sup>2</sup> (27.6 MPa)	4000 psi
Flexural Modulus of Elasticity	(ASTM C 580)	0.75 x 10 <sup>5</sup> kg/cm <sup>2</sup> (0.75 x 10 <sup>4</sup> MPa)	1.08 x 10 <sup>6</sup> psi
Bond Strength Excellent - 100% Concrete		>28 kg/cm <sup>2</sup> (>2.8 MPa)	>400 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	30 x 10 <sup>-6</sup> cm/cm/°C	17 x 10 <sup>-6</sup> in/in/°F
Thermal Compatibility to Concrete	(ASTM C 884)	Passes	
Impact Resistance	(ASTM D 4272)	Greater than Concrete	
Taber Abrasion H-18/250 gm wt/500 cycles	(ASTM D 4060)	97 mg Maximum Weight Loss	
Maximum Service Temperature (Dependent on service) (Water Immersion) Continuous (Water Immersion) Intermittent		66°C 93°C	150°F 200°F
Shelf life (unopened containers)		2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]	