

## Rapid-Setting Epoxy Grout to Repair/Patch Concrete Surfaces

*ARC EG-1 FC is a three part, 100% solids, rapid setting epoxy grout that can return damaged concrete surfaces to foot traffic in as little as 1 hour and can sustain tow motor traffic within 6 hours of application.*

- Resurface concrete damaged by a chemical attack or mechanical stress
- Fill voids prior to top coating
- Bond to damp concrete
- Sets fast allowing rapid overcoating
- Applies easily by trowel

### Application Uses

- Fill Spalled Areas
- Build Up Low Areas
- Form Curbs and Pads
- Patch Machinery Footprint Damage
- Create Slope to Drains

### Packaging and Coverage

Nominal, based on a 12 mm (480 mil) thickness

- Patch Kit covers 0.75 m<sup>2</sup> (8.1 ft<sup>2</sup>)

Note: Components are pre-measured & pre-weighed.  
Each Patch Kit includes mixing and application instructions plus tools.

Colors: Gray/Red



### Features and Benefits

- **Low Temperature Cure Capability**
  - Cures down to 40°F (4°C)
- **Low viscosity resin**
  - Mixes and applies easily
- **Pigmented aggregate blend**
  - Closely matches the color of concrete
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
  - Serves demanding applications
- **Bonds to dry or damp concrete**
  - Allows for quick repairs
- **Epoxy resin has excellent wetting and cured strength**
  - Bonds firmly to prepared concrete
- **Rapid curing allows for quick return to service**

### Technical Data

Composition	Matrix	A compounded epoxy resin reacted with modified aliphatic amine curing agent	
	Reinforcement	Dried and graded silica sand with pigments	
Cured Density		2.06 g/cc	2.06 g/cc
Compressive Strength	(ASTM C 579)	546 kg/cm <sup>2</sup> (53.6 MPa)	7700 psi
Pull-Off Adhesion	(ASTM D 4541)	84 kg/cm <sup>2</sup> (8.3 MPa)	1200 psi
Tensile Strength	(ASTM C 307)	119 kg/cm <sup>2</sup> (11.7 MPa)	1700 psi
Flexural Strength	(ASTM C 580)	218 kg/cm <sup>2</sup> (21.4 MPa)	3100 psi
Flexural Modulus of Elasticity	(ASTM C 580)	8.86 x 10 <sup>4</sup> kg/cm <sup>2</sup> (8.69 x 10 <sup>3</sup> MPa)	1.26 x 10 <sup>6</sup> psi
Bond Strength	Excellent - 100% Concrete	>28 kg/cm <sup>2</sup> (>3.4 MPa)	>500 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	25.30 x 10 <sup>-6</sup> mm/mm/°C	1.9 x 10 <sup>-5</sup> in/in/°F
Maximum Service Temperature (Dependent on service)	(Water Immersion) Continuous	66°C	150°F
	(Water Immersion) Intermittent	93°C	200°F
Shelf life (unopened containers)		3 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]	