

Fast-Setting Grout Resurfacer to Repair/Patch Industrial Concrete Surfaces

Use ARC EG-1(E) to resurface damaged concrete quickly, including voids up to 30 cm (12 inches). ARC EG-1(E) bonds to dry or damp concrete, is fast setting, and can be rapidly top-coated, within 4 hours with other ARC products for improved chemical or mechanical protection. ARC EG-1(E) is a 100% solids, three-part grout which uses a low viscosity, moisture tolerant epoxy chemistry that is reinforced with a dried blend of graded and pigmented silica aggregates.

- 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 1.19 m² (12.8 ft²)
- Bulk Kit covers 3.57 m² (38.4 ft²)

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

Each Patch Kit includes mixing and application instructions plus tools.

Color: Gray



Features and Benefits

- **Low viscosity resin**
 - Mixes and applies easily
- **Pigmented aggregate blend**
 - Closely matches the color of concrete
- **100% solids; 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		2.02 g/cc	126 lb/cu. ft.
Compressive Strength	(ASTM C 579)	534 kg/cm ² (52.3 MPa)	7,600 psi
Pull-Off Adhesion	(ASTM D 4541)	>35.1 kg/cm ² (>3.4 MPa)	>500 psi Concrete Failure
Tensile Strength	(ASTM C 307)	98 kg/cm ² (9.6 MPa)	1,400 psi
Flexural Strength	(ASTM C 580)	155 kg/cm ² (15.1 MPa)	2,200 psi
Flexural Modulus of Elasticity	(ASTM C 580)	5.3 x 10 ⁴ kg/cm ² (5.2 x 10 ³ MPa)	7.5 x 10 ⁵ psi
Bond Strength Excellent - 100% Concrete		>28 kg/cm ² (>2.8 MPa)	>400 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	31.7 x 10 ⁻⁶ mm/mm/°C	1.75 x 10 ⁻⁵ in/in/°F
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]		