

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

Use ARC EG-1 to resurface damaged concrete quickly, including voids up to 12 inches. ARC EG-1 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 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 .6 m² (6.4 ft²)
- Bulk Kit covers 1.8 m² (19.2 ft²)

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

Each Patch Kit includes mixing and application instructions plus tools.

Colors: Gray



Features and Benefits

- 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		2.2 g/cc	2.2 g/cc
Compressive Strength	(ASTM C 579)	541 kg/cm ² (53 MPa)	7,700 psi
Pull-Off Adhesion	(ASTM D 4541)	>35.1 kg/cm ² (>3.4 MPa)	>500 psi Concrete Failure
Tensile Strength	(ASTM C 307)	119 kg/cm ² (11.7 MPa)	1,700 psi
Flexural Strength	(ASTM C 580)	232 kg/cm ² (22.7 MPa)	3,300 psi
Flexural Modulus of Elasticity	(ASTM C 580)	10.2 x 10 ⁴ kg/cm ² (9.97 x 10 ³ psi)	1.45 x 10 ⁶ psi
Bond Strength	Excellent - 100% Concrete	>28 kg/cm ² (>2.8 MPa)	>400 psi
Linear Coefficient of Thermal Expansion	(ASTM C 531)	25.30 x 10 ⁻⁶ mm/mm/°C	1.4 x 10 ⁻⁵ 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)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		