Product Datasheet: ARC CS4

100% Solids, Highly chemical resistant and wear resistant, low viscosity, thin film 100% Novolac epoxy. ARC CS4 industrial coating is a concrete overlayment designed to:

- Protect new and old concrete subject to severe chemical attack
- Replace acid resistant tiles, chemical resistant paints and other concrete coatings
- Apply by roller, brush, squeegee or airless or heated plural component spray

Application Areas

- Chemical tanks
- Secondary containment
- Sumps, drains & pits
- Chemical process floors
- Neutralization tanks
- Pump foundations
- Equipment bases

Packaging and Coverage

Nominal, based on a 500 µm (20 mils) thickness

- 5 liter kit covers 10 m^2 (107.6 ft^2)
- 16 liter kit covers 32 m^2 (344 ft^2)

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

Each kit includes mixing and application instructions.
5 liter kits include tools.

Color: Red

NOTE: Due to a localized surface reaction, ARC CS4 may discolor in certain concentrated chemicals. This discoloration does not mean that the ARC composite has degraded. A corresponding trace discoloration of the process liquid may also occur. Please contact your local ARC Specialist for more information.

Features and Benefits

- **Resistant to broad range of acids & caustics**
  - Easy coating selection
- **Durable high performance coating**
  - Longer life
  - Outlasts conventional coatings
- **100% solids; no VOCs; no free isocyanates**
  - Enhances safe use
  - No Shrinkage on cure
- **Applies to dry or damp concrete**
  - Saves time
  - Enhances correct application
  - Versatile for a variety of conditions
- **Surface Modified Mineral Reinforcements**
  - Excellent resistance to permeation
- **Adhesion exceeds cohesive strength of concrete**

Technical Data			
Composition Matrix	100% Novolac epoxy resin reacted with cycloaliphatic amine curing agent		
Reinforcement *(Proprietary)*	Blend of surface modified mineral reinforcements providing resistance to permeation and chemical attack		
Cured Density		1.2 gm/cc	75 lb/ cu.ft.
Tensile Adhesion	(ASTM D 4541)	>35.1 kg/cm^2 (>3.4 MPa)	>500 psi Concrete Failure
Compressive Strength	(ASTM D 695)	970 kg/cm^2 (95 MPa)	13,750 psi
Tensile Strength	(ASTM D 638)	210 kg/cm^2 (21 MPa)	3,050 psi
Tensile Elongation	(ASTM D 638)	8%	
Flexural Strength	(ASTM D 790)	410 kg/cm^2 (40 MPa)	5,880 psi
Flexural Modulus	(ASTM D 790)	1.3 x 10^4 kg/cm^2 (1.3 x 10^3 MPa)	1.9 x 10^5 psi
Hardness Shore D	(ASTM D 2240)	79	
Thermal Compatibility to Concrete 5 cycles/dry/< -10°C to 50°C (<14°F to 122°F)	(ASTM C 884 Modified)	Pass	
Vertical Sag Resistance, at 21°C (70°F) and 200 µ (8 mils)		No Sag	
Maximum Temperature (Dependent on service)	Wet Service (Continuous) Wet Service (Intermittent) Dry Service	40°C 52°C 80°C	105°F 125°F 175°F
Shelf life (unopened containers)	2 years [stored between 10°C (50°F) and 32°C (90°F) in dry, covered facility]		

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