

A novolac vinyl ester based, protective barrier coating for high temperature, chemical exposures where aggressive chemicals and abrasive conditions may be present. ARC T7 AR industrial coating is designed to:

- Resist a wide range of inorganic, as well as organic acids and hydrocarbon based chemical compounds
- Resist abrasion
- Easily apply by trowel

Application Areas

- Flue gas ducts
- Process Tanks
- Agitator Blades
- Valves
- Slurry Pumps
- Pipes
- Rubber Lined Reactor Tanks
- Quench zones

Packaging and Coverage

Nominal, based on 3 mm (120 mil) thickness

- 20.4 kg kit covers 2.50 m² (27.00 ft²).
- ARC T7 AR is recommended to be applied as a one coat system at minimum 3 – 4 mm (120 – 160 mil) total dry film thickness.
- Kit also includes ARC T7 AR VC (veil coat) for final coat smoothing.

Note: Components are pre-measured & pre-weighed. Each kit includes application instructions plus tools.

Colors: Red

Maintain transport temperature below 24°C (75°F)



Features and Benefits

- **Chemical resistant polymer matrix**
 - Resists a broad spectrum of organic and inorganic acids
 - Resists high temperature immersion exposures
- **Incorporates high strength ceramic reinforcements**
 - Permeation resistant
 - Abrasion resistant
- **Toughened resin structure**
 - Resists cracking and disbondment under thermal cycling conditions
 - Resists rapid decompression

Technical Data

Composition	Matrix	A flexibilized epoxy novolac vinyl ester resin reacted with a cumene hydrogen peroxide catalyst	
	Reinforcement	A proprietary blend of high purity alumina ceramic reinforcements for resistance to sliding abrasion	
Cured Density		2.6 g/cc	162 lb/ cu.ft.
Pull-Off Adhesion	(ASTM D 4541)	158 kg/cm ² (15.5 MPa)	2249 psi
Compressive Strength	(ASTM D 695)	731 kg/cm ² (71 MPa)	10410 psi
Flexural Strength	(ASTM C 580)	228 kg/cm ² (22.4 MPa)	3250 psi
Flexural Modulus	(ASTM C 580)	9.84 x 10 ⁴ kg/cm ² (9.65 x 10 ³ MPa)	1.4 x 10 ⁶ psi
Durometer Hardness Shore D	(ASTM D 2240)		>80
Maximum Temperature (Dependent on service)	Wet Service (water)	135°C	275°F
	Dry Service (continuous)	180°C	356°F
Shelf life (unopened containers)	6 months [transported and stored between 10°C (50°F) and 24°C (75°F)]		