

Product Datasheet: ARC T7 AR

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 novol catalyst	A flexibilized epoxy novolac vinyl ester resin reacted with a cumene hydrogen peroxide catalyst		
Reinforcement	A proprietary blend of hig abrasion	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/cm² (15.5 MPa)	2,249 psi	
Compressive Strength	(ASTM D 695)	731 kg/cm ² (71 MPa)	10,410 psi	
Flexural Strength	(ASTM C 580)	228 kg/cm ² (22.4 MPa)	3,250 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) Dry Service (continuous)	135°C 180°C	275°F 355°F	
Shelf life (unopened containers)	6 months [transported and	6 months [transported and stored between 10°C (50°F) and 24°C (75°F)]		



A.W. Chesterton Company 860 Salem Street, Groveland, MA 01834 USA Tel +1 978-469-6888 Toll Free 844-469-6888 www.arc-epc.com ARCInfo@Chesterton.com © 2016 A.W. Chesterton Company

Registered trademark owned and licensed by A.W. Chesterton Company in USA and other countries, unless otherwise noted.

Technical Data reflect results of laboratory tests and are intended to indicate general characteristics only. Since many actual application circumstances are beyond Chesterton's knowledge and/or control, the product user must determine the suitability of the products it intends to use for its particular purpose and assume all risks and liabilities in connection therewith. CHESTERTON DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.