

Elephant Armor

Elephant Armor® is designed to limit catastrophic failure no matter what material it is applied over. Due to its ability to micro-fracture and flex over moving surfaces, Elephant Armor® reduces the potential for structural cracking.

Surfaces include: concrete, asphalt, steel, wood and EPS structural foam.

Most Importantly, it is the ONLY PRODUCT on the market that can be applied over existing cracks and limit the propagation of those cracks through the new Elephant Armor® surface.

Key Features

- Fiber reinforced: Superior flexural and tensile strength as thin as 1/4”.
- High ductility, allowing the overlay or repair to ‘FLEX’ without failure.
- Resists de-icing salts, freeze/thaw.
- Superior tensile strain capacity over other cement based products for improved crack resistance.
- Superior bond strength to that of other fiber and acrylic based mortars.
- Ideal as a structural underlayment.
- Prevents the propagation of existing cracks through the surface.
- Highly impermeable and abrasion resistant.
- Unparalleled as a stampable overlay.
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Elephant Armor (EA) v/s Polymer – Comparison Table

Property	Polymer Mortar	EA – ECC Mortar
Re-Inforcing Additive	Polymer	Fibre
Flexibility	Non-Bendable	Bendable
Brittleness	Fails a 6 Feet Drop Test	Survives a 20 Feet Drop Test
Curing Time Requirement	High Curing Time	Water Spray Cure
Surface Back to Service	Atleast 1 day	45 Minutes
Technical Parameters		
Parameter - ASTM test	Polymer Mortar Result	Elephant Armor - ECC Result
Compressive Strength (ASTM C109)	4 Hrs : 8.3 MPa 1 Day : 10.3MPa	4 hrs : 24.3 MPa 1 Day : 28.5 MPa 7 Days : 41.2 MPa 28 Days : 47.4 MPa
Flexural Strength (C947)	3.3 MPa	7 Days : 9.9 MPa 28 Days : 10.6 MPa
Split Tensile Strength (C496)	14 MPa (D412)	7 Days : 5.1 MPa 28 Days : 6 MPa
Adhesion (Bond Strength)	4.1 MPa	1 Day : 8.5 MPa 7 Days : 14 MPa