



ULTRA FAIRING COAT

Epoxy Mortar System To Surface And Resurface

ULTRA FAIRING COAT is a trowel applied epoxy mortar system designed to surface and resurface floor slabs of all types. Worn and damaged floors can be restored to a uniform, high strength, wear resistant surface with the use of ULTRA FAIRING COAT. Because ULTRA FAIRING COAT is resistant to many commonly found chemicals, it is an excellent choice for protection against splash and spill chemical attack in combination with tough floor wear.

PRIMARY APPLICATIONS

- Industrial floors
- Warehouses
- Machine shops
- Food processing & rendering plants
- Kitchens
- Secondary chemical containment areas
- Common chemical processors
- High traffic aisle ways
- Docks
- Ramps

FEATURES / BENEFITS

- Easy to use 3 part system
- Suitable for 1/8" (3 mm) to 2" (50 mm) thicknesses
- Quick cure formula minimizes down time
- Resistant to wear and abrasion from vehicular traffic
- Good for both new and old concrete
- High bond and flexural strength for impact resistance
- Solvent free and V.O.C. compliant 100% solids
- Resistant to common chemicals for dependable protection of concrete
- Can be installed with a non-slip surface
- High aggregate loading for thermal stability
- Heat resistant up to 220°F (104°C).
- Approved for use by the U.S.D.A.

SPECIFICATIONS / COMPLIANCES

- ASTM C 881, Types II and IV, Grade 1, Class B and C

TECHNICAL INFORMATION
Typical Engineering Data
 The following information was developed under laboratory conditions.

COLOR	GREY		
S.G	1.7 mixed material		
Volume solids	100%		
Pot Life on 1 pint mass	60°F.....	75°F.....	90°F
	(16°C)	(24°C)	(32°C)
	40 min	35 min	30 min
Working Time	1.5 hr	1 hr	40 min

Compressive Strength
 ASTM C 579, 2" (50 mm) cubes

Age Strength
 1 day 7250 psi (50 N/mm²)
 7 days 12325 psi (85 N/mm²)
 28 days 14065 psi (97 N/mm²)

Split Tensile Strength ASTM C-496
 2,300 psi (16 N/mm²)

Flexural Strength ASTM C 580
 4,300 psi (30 N/mm²)

Bond Strength ASTM C 882
 3,100 psi (21 N/mm²)

Coefficient of thermal expansion
 ASTM C-531: 2.3 x 10⁻⁵ in/in/°F
 (4.1 x 10⁻⁵ mm/mm/°C)

Heat Deflection Temperature:
 192°F (89°C)

Appearance
 ULTRA FAIRING COAT will appear as a beige/sand surface when applied over a concrete floor, but a topcoat of Ultra Primer

PACKAGING / YIELD

2.5 AND 5 KG PACK

Ultra Primer, is available in 2.5 kg and 5 kg units, and must be ordered separately.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 28 days old and possess an open surface texture with all curing compounds and sealers removed.

Old concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bush-hammer, shot-blast scarifier which will give a surface profile of a minimum 1/8" (3 mm) and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residues with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry.

NOTE: Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures.

Joints and Edges - Edges should be saw-cut to 1/4" (6 mm) more than the overlay thickness and notched at the edge of the overlay. Moving joints as in the case of expansion joints should be brought up through the overlay by saw-cutting or with the use of a divider strip. All cracks over 1/16" (2 mm) wide should be routed out to a 1/4" (6 mm) width and 1/4" (6 mm) depth prior to application of the mortar.

Priming-The surface must be primed with Ultra PRIMER after the concrete surface has been prepared as indicated above. Apply



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the primer at the recommended coverage rate. Rougher surfaces may require a stiff broom to apply the primer while a relatively smooth, shot-blasted surface will allow use of roller application.

Mixing-All materials should be in the proper temperature range of 60oF (16oC) to 90oF (32oC). Mix parts A and B (resin & hardener) for 2 minutes or until all aggregate pieces are completely covered by the epoxy. For large placements, mix the epoxy separately in a pail then mix the epoxy and aggregate together in a mortar mixer and place immediately.

Placement-Discharge material from mixer and place onto floor. For patching, spread with a trowel, come a- long, or square tipped shovel to a thickness of about 1/8" (3 mm) higher than the final desired height of the overlay. Compact and finish by hand or machine trowel.

Sealing-If desired, the surface may be sealed or top coated with ULTRA PRIMER. Additional chemical resistance can be achieved by top-coating with Ultra Primer. Consult individual technical data sheets for specific chemical resistance information. Shelf life is 1 years in original, unopened package.

CLEAN-UP
Clean tools and equipment with solvent such as Ultra Solvent106, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS/ LIMITATIONS
Interior use only.
Not recommended in areas where the floor temperature exceeds 220oF (104oC) on a continual basis.

Keep at room temperature 60-70oF (16-21oC) 24 hours prior to use.

Chemical Resistance

Splash and Spill	
Acids Solvents	
Acetic	Poor
Acetone	Good
Battery	Excellent
Aromatic	Good
Citric	Good
Gasoline	Good
Hydrochloric, MEK	Poor
20%	Excellent
Mineral Fatty Acid	Excellent
Spirits	Excellent
Lactic	Excellent
Toluene	Fair
Nitric10%	Poor
Xylene	Fair
Sulfuric, 50%	Good
Alkalies	
Caustic Soda. 10%	Excellent
Miscellaneous	
Brake Fluid	Good
Transmission Fluid	Good
Animal Fat	Excellent
Salts	Excellent
Urine	Excellent

Storage:
Avoid to place direct to sun light and always store in shady areas.

ISO Certification:
Our production facility at Pakistan is ISO 9001:2008 ISO 14001:2004 by BUREAU VERITAS and UKAS Management

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