



THE EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD • Cleveland, OH 44110
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596
www.euclidchemical.com

EUCO #352 EPOXY SYSTEM

ASTM C 881 COMPLIANT, LOW MODULUS ADHESIVE

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EUCO #352 EPOXY SYSTEM is a 100% reactive, 2-component material designed as a moisture insensitive adhesive and binder for numerous application needs. This low modulus material is available in a low viscosity (LV), medium viscosity (MV) or GEL consistency. EUCO #352 provides normal working time when bonding concrete at temperatures above 40°F (4°C).

PRIMARY APPLICATIONS

APPLICATION	Viscosity Formulation		
	LV(1)	LV(2)	GEL
Priming	X		
Sealing	X		
Bonding Toppings	X	X	
General Adhesive	X	X	X
Floor and Joint			
Repair Material	X	X	
Non-Sag Material		X	
Vertical and			
Overhead Coatings		X	

(1) At temperatures above 90°F (32°C) the medium viscosity formulation may be more suitable for these applications. Gel time will be shortened.

(2) At temperatures below 60°F (16°C) the low viscosity formulation may be more suitable for these applications.

FEATURES/BENEFITS

- More flexible than high modulus systems to take additional movement
- Excellent adhesive for bonding together concrete, steel, ceramic or wood materials
- Bonds fresh concrete toppings to hardened concrete slabs
- Protects concrete substrates against chemical attack including most acids and caustics
- May be extended with sand or aggregate for thick applications and mortar repairs
- Designed for use at temperatures of 40°F (4°C) and above

TECHNICAL INFORMATION

Typical Engineering Data

Typical Properties of all EUCO #352 EPOXY SYSTEMS when tested @ 70°F (21°C) under laboratory conditions.

PROPERTY	EUCO 352 SYSTEMS	
Gel Time		
ASTM C 881-90		40 mins
Gel Time		
1 gal (3.8 liter)		25 mins
Working Time Over Concrete		90 mins
Bond Strength		
ASTM C 882 @ 48 hours	>1,100 psi (>7.6MPa)	
Bond Strength		
ASTM C 882 @ 14 days	> 2,200 psi (>15 MPa)	
Water Absorption		
ASTM D 570	<0.2%	
Durometer		
ASTM D 2240 "D Scale"	70-75	
Tensile Strength		
ASTM D 638	> 5,000 psi (>34 MPa)	
Compressive Modulus of Elasticity		
ASTM D 638	0.3 x 10 ⁶ psi (2,069 MPa)	
Tensile Elongation		
ASTM D 638	>9.0%	
Compressive Strength		
ASTM D 695	>15,000 psi (>103.4 MPa)	
Shelf Life:	2 years in unopened containers.	

Appearance

EUCO #352 is a 2-part system consisting of a white pigmented Part A and a black pigmented Part B. When these parts are combined, the resultant material is medium gray in color.

PACKAGING

EUCO #352 epoxies are two part systems mixed at a 2 to 1 ratio mix ratio by volume, Part A to Part B. The units are pre-proportioned and packaged in 1 gal (3.8 liter) units.

EUCO #352 EPOXY SYSTEM may be used as an anchoring material for non-critical applications. Repair mortars can be made with these products by adding aggregate. Size, gradation and the amount of aggregate will be determined by the application. The user is advised to consider the use of a pre-packaged mortar, such as EUCO #456 MORTAR.

SPECIFICATIONS/COMPLIANCES

- EUCO #352 LV meets the requirements of ASTM C 881-90, Types I, II, IV and V, Grade 1, Class B, C, D, E & F. It is suitable for use under ACI specifications 503.1, 503.2, 503.3 & 503.4.
- EUCO #352 MV meets the requirements of ASTM C 881-90, Types I, II, IV and V, Grade 2, Class B, C, D, E & F. It is suitable for use under ACI specifications 503.1, 503.2, 503.3 & 503.4.
- EUCO #352 GEL meets the requirements of ASTM C 881-90, Types I, II, IV and V, Grade 2, Class B, C, D, E & F. It is suitable for use under ACI specifications 503.1, 503.2, 503.3 & 503.4.
- * EUCO #352 LV, MV and GEL all pass ASTM C 883 and ASTM C 884 requirements.
- EUCO #352 LV, MV and GEL are U.S.D.A. approved for use in inspected facilities.

COVERAGE

COVERAGE RATES FT²/GAL (M²/LITER)*

Application	#352 LV	#352 MV	#352 Gel
Priming & Sealing	100-125 (9.3-11.6)	-----	-----
Bonding	-----	50-100	55-70
Toppings	-----	(4.6-9.3)	(5.1-6.5)
Repair Mortar	20-24	18-22	12-16
1/4" (6.4 mm)	(1.8-2.2)	(1.6-2.0)	(1.1-1.5)

*Note: The coverage rate of each product is highly dependent upon the concrete surface texture, the temperature of the material and the concrete. For applications involving repair mortars, the gradation of the aggregate and the workability desired highly affects the amount of epoxy required.

DIRECTIONS FOR USE

Surface Preparation-New concrete must be a minimum of 28 days old and possess an open, porous and textured surface with all curing compounds and sealers removed. Old concrete must be clean and well textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface should be prepared mechanically using a scabber, bushhammer, shotblast, scarifier or similar equipment which will give a surface profile commensurate with the application (coating applications should have a light sandblast appearance while topping applications should have the concrete 25% of the thickness of the topping). The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washer.

Mixing-All materials should be in the proper temperature range of 60°F (16°C) - 90°F (32°C). Mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing, add the part B to the part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction.

If aggregate is to be added, the aggregate is mixed into the epoxy after the part A and part B have been premixed together. Place immediately.

Application-(Priming, Bonding or Sealing)-Use either Low Viscosity or Medium Viscosity formulations in these applications. Apply material by roller, squeegee or airless sprayer in a uniform fashion. Do not allow the material to puddle. Extremely porous surfaces may require a second coat for proper ultimate performance.

Priming & Bonding-If using EUCO #352 as a bonding agent for a cementitious topping, place the topping on the EUCO #352 while the epoxy is still wet. If the epoxy has become "tacky" to the point where it is no longer a sticky liquid, a fresh coat of EUCO #352 must be applied before the topping is placed.

Sealing & Coating-If a second coat of EUCO #352 is to be placed on the concrete, the first coat should be slightly tacky (4-10 hours old) when the second coat is applied.

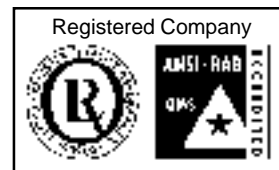
Repair Mortars-The surface should be primed with EUCO #352 LV prior to application of the repair mortar. Mix the epoxy unit (part A with Part B) prior to adding the aggregate. Trowel the mortar into place. If the surface is too rough, a topcoat of either EUCO #352 LV or MV can be applied.

CLEAN-UP

Clean tools and equipment with solvent such as EUCO SOLVENT, xylene, xylol, toluene or MEK. Do not allow the epoxy to harden on equipment.

PRECAUTIONS/LIMITATIONS

- This product is primarily intended as an adhesive. While use as a coating is allowed, better performance and color consistency can be expected from the EUCOPOXY TUF-COAT or EUCOTHANE product line.
- This product may vary in color and may yellow and chalk in prolonged exposure to sunlight.
- Bring materials as close to 70°F (21°C) as possible. Store in room temperature environment 24 hours prior to use. Do not heat with open flame.
- Store indoors at 45-110°F (7-43°C).
- Epoxy components may cause irritation. Avoid contact with eyes and skin.
- Do not apply over freestanding water.
- Do not apply over hardened primer or old epoxy without proper surface preparation.
- This product may be used for anchoring in non-critical applications. For critical applications use EUCO #452 or EUCO #620 Epoxy Systems.
- Not recommended for use as a surface sealer over new concrete less than 30 days old.
- Not recommended for use when base concrete is at a temperature under 40°F (4°C).



Form Euco #352 Epoxy System-8.01

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.