



Clockwise beginning from top right corner: A) Consumables picture of EPO-COLOR™ resin, hardener, supplies and accessories; B) Sample mounted with EPO-COLOR; C&D) Fracture in thermal spray coating as it appears mounted in EPO-COLOR under brightfield and darkfield illumination 100x versus unmounted (D); E&F) EPO-COLOR makes identifying pores from the base materials simple 200x

BUEHLER® EPO-COLOR™ DYE ENHANCED EPOXY

- Used to identify or highlight pores and cracks which are difficult to distinguish from the base material
- Used to differentiate between epoxy and materials of similar reflectance such as polymers and coatings
- Epoxy appears bright red under darkfield or polarized light illumination
- No fluorescent light required
- Easy-to-use dye enhanced resin and hardener system
- 1-2 hour cure at room temperature conditions
- For use with vacuum impregnation
- Moderate 175°F (80°C) exotherm
- 82 Shore D Hardness

- Viscosity 1000 cps
- Moderate shrinkage and abrasion resistance
- Compatible with all types of molds and RING FORMS®

Material Applications

Porous Materials • Materials with Macro and Micro Cracks • Fractures • Castings • Thermal Spray Coatings • Minerals • Ceramics • Powder Metals • Composites • Polymers • Coatings

Part Numbers

EPO-COLOR Dye Enhanced Epoxy:
Resin: 20-8143-032 1 quart (0.95l)
Hardener: 20-8144-008 ½ pint (0.24l)

See other side to select desired Cold Mounting Accessories and Supplies. See Buehler's Consumable Catalog for a complete listing of Castable Resin (Cold) Mounting Accessories.

EPOXY MOUNTING COMPOUNDS — ROOM TEMPERATURE CURING GUIDE

Buehler offers a full line of Epoxy Mounting Compounds to meet every materials application need.

NAME	TYPE	PEAK TEMP.	SHORE D HARDNESS*	CURE TIME	RECOMMENDED MOLD	COMMENTS
EPO-THIN®	Epoxy	80°F	78	18-20 hours	Any	Low viscosity, low shrinkage, transparent
Epoxide	Epoxy	82°F	82	6-8 hours	Any	Moderate hardness, transparent, low shrinkage
EPO-KWICK®	Epoxy	185°F	82	30-45 minutes	SAMPL-KUP®	Faster epoxy, some shrinkage, transparent
EPO-COLOR™	Enoxy	175°F	82	1-2 hours	Any	Dye enhanced to reveal

COLD MOUNTING SUPPLIES

DESCRIPTION	SIZE	QTY.	PART NO.
SAMPL-KUPS®	1¼" (3.2cm)	12	20-8180
Reusable Rubber Mounting Cups	1" (2.5cm)	5	20-8181
	1¼" (3.2cm)	5	20-8182
	1½" (3.8cm)	5	20-8183
	2" (5cm)	5	20-8184
MET-KLEER® Molds	.875" x .875" (2.2 x 2.2cm) ID	10	20-8187
MET-KLEER® Adhesive Bases	4" x 5" (10.2 x 12.7cm)	10	20-8188
Disposable Mounting Cups	1" (2.5cm)	50	20-8280
	1¼" (3.2cm)	50	20-8281
	1½" (3.8cm)	50	20-8282
	2" (5cm)	50	20-8283
Release Agent	2 oz.	1	20-8185-002
	½ pt. (0.24l)	1	20-8185-008
	1 pt. (0.47l)	1	20-8185-016
	1 qt. (0.95l)	1	20-8185-032
Electroless Specimen Coating	EDGEMET KIT®	Kit	20-8192
Pumps for Gallon and Quart Size Containers	(except 20-8132-032)	Each	20-8000
	For 20-8132-032	Each	20-8100
Stirring Sticks	Wooden	1000	20-8175

COLD MOUNTING ACCESSORIES

DESCRIPTION	TYPE	QTY.	PART NO.
SAMPL-KLIP®	Stainless Steel	100	20-4000-100
SAMPL-KLIP® I	Plastic	100	20-4100-100
UNICLIP Specimen Support Clips	Plastic	100	20-5100-100
Specimen Support Clips	Plastic	1000	20-4001-000
Paper Cups		100	20-8177-100

EPOXY SYSTEMS

TYPE	QTY.	RESIN	HARDENER	KIT
Epoxide	1 qt. (0.95l)	20-8130-032		
	1 gal. (3.8l)	20-8130-128		
	½ pt. (0.24l)		20-8132-008	
	1 qt. (0.95l)		20-8132-032	
EPO-THIN® Low Viscosity Epoxy	1 qt. (0.95l)	20-8140-032		
	1 gal. (3.8l)	20-8140-128		
	1 pt. (0.47l)		20-8142-016	
	64 oz. (1.9l)		20-8142-064	
EPO-KWICK® Fast Cure Epoxy	1 qt. (0.95l) kit			20-8128
	1 gal. (3.8l) kit			20-8129
	1 gal. (3.8l)	20-8136-128		
EPO-MIX® Epoxide	1 qt. (0.95l)		20-8138-032	
	10-1 oz. (30ml) pkgs.			20-8133-001
EPO-COLOR™ Dye Enhanced Epoxy	1 qt. (0.95l)	20-8143-032		
	½ pt. (0.24l)		20-8144-008	

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

