



Epoxy.com Product #304

Low Temperature Epoxy Injection System

DESCRIPTION

Epoxy.com Product #304 Epoxy is a moisture insensitive, two-component, 100% solids epoxy resin system designed specifically for use in temperatures of 40°F and below. It is recommended for injection or anchor-bolt grouting in the neat state or as a mortar when mixed with up to 3 1/4 parts of **PRODUCT #75 Filler** (by volume). **PRODUCT #304** exceeds requirements of ASTM C-881-90, Types I, Grade 1, Class A.

ADVANTAGES:

- Usable at 32°F
- Will cure at low temperatures.
- Does not shrink in curing.
- Abrasion and chemical resistant.
- Will produce structural properties within 24 hours.

WHERE TO USE:

- Pressure grouting damp or dry cracks
- Anchor bolt grout
- Concrete Sealer
- Mortar for grouting base plates

PHYSICAL PROPERTIES:

Color	Mixed Epoxy - Straw
Mixing Ratio	2A to 1B by volume.
Viscosity	1800 cps @ 40°F 500 cps @ 70°F
Pot Life	45 min. @ 40°F 10 min. @ 70°F
Gel Time	60 min. @ 40°F 16 min. @ 70°F

Compressive Strength

		40°F (4°C)	70°F (21°C)
ASTM C 109 Modified Neat Epoxy:	1 day	12,500 psi	13,500 psi
	7 days	13,000 psi	13,500 psi
	14 days	14,000 psi	14,000 psi
Filled: (3 1/4 parts filler)	1 day	5,000 psi	9,500 psi
	3 days		9,500 psi
	7 days	6,500 psi	9,500 psi
	14 days	8,000 psi	9,500 psi

Slant shear tests meet and exceed requirements of ASTM C 882. Allow 10 to 15 minutes open time to apply **PRODUCT #304**, prior to placement of fresh concrete, when testing slant shear at 40°F (4°C).

SURFACE PREPARATION:

All surfaces to receive **PRODUCT #304** must be free of dirt, grease, curing compound, liquid contaminants, heavy laitance and soft or deteriorated concrete. It is recommended that abrasive blasting, water blasting or acid etching with a 10% solution of commercial muriatic acid be utilized for surface preparation. Vacuum all areas prior to application to remove fine particles of cement or sand. Surface must be sound.

MIXING:

Combine two parts by volume of "A" Component with one part by volume of "B" Component (mixing ratio is 2:1). For best results, mix entire unit. The blend should be thoroughly mixed for at least three minutes with a low speed 1/2" electric drill and Epoxy.com Mixing Paddle. If used as a mortar, introduce the PRODUCT #75 Filler slowly while mixing to assure proper aggregate saturation.

APPLICATION:

Apply immediately after mixing. Epoxy.com Keep PRODUCT #304 warm where possible. This will facilitate mixing and application. No ice should be present when applying.

COVERAGE:

One (1) gallon (3.8 L) of PRODUCT #304, with 3 to 3 1/4 parts of PRODUCT #75 Filler, provides approximately 645 cu. in. (1 x 10 cm) of mortar.

LIMITATIONS:

Do not thin; solvents will prevent proper cure. Use only oven-dry aggregate to avoid encapsulation of moisture.

CAUTION:

"A" Component: **WARNING!** Contains epoxy resin. May cause skin sensitization or other allergic responses. Avoid inhalation of vapors and all contact with skin or eyes. Use good ventilation. Wear protective clothing, goggles, gloves and/or barrier creams. If contact with skin occurs, wash immediately with soap and water. In case of contact with eyes, flush immediately with water for at least 15 minutes. Contact a physician.

"B" Component: **CAUTION! DANGER!** Contains aliphatic amines. May cause burns, skin sensitization, and other allergic responses. Do not get into eyes, on skin or clothing. Avoid breathing vapors. Keep containers closed. Use with adequate ventilation. In case of contact with eyes or skin, flush immediately with plenty of water for at least 15 minutes. Call a physician. Wear protective clothing, goggles, gloves and/or barrier creams. Remove contaminated clothing and wash before reuse. Discard contaminated shoes.

FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

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