



COLDBRAZE

Multi-Purpose Metal Repair Compound

1. Product Description

a. **Basic Use:** Coldbraz is an epoxy-based repair compound specially formulated to reinforce and repair iron, steel and other metallic surfaces. Coldbraz economically extends the serviceable life of metal linings, blow pipes, dust collecting units, weld joints, anchor supports, iron castings and mechanical parts.

b. **Features/Benefits:**

- Coldbraz resists abrasion from seed, grain, feed, cement and sand transported through blow pipes.
- Restores weakened weld joints.
- Offers excellent chemical resistance to acids, alkalis, solvents and most other corrosive agents.
- Offers cost-effective preventative maintenance of new installations as a protective or sacrificial liner.
- Easy-to-use formulation does not require special tools, equipment or worker skills.
- May be used as a smoothing compound over lap and weld seams.
- VOC compliant product is free of solvents and may be installed near fire and explosion hazards.
- Reinforces and repairs high impact and wear points.

c. **Typical Applications:** Protective lining, patch holes, breaks and cracks in pipe and other metal surfaces, blow pipes, dust collectors, machined parts and iron castings.

d. **Limitations:** Do not use where prolonged exposure to temperatures exceeding 170°F (77°C) is possible.

e. **Composition:** Coldbraz is a three component system of epoxy binder and activator with specially graded natural aggregate.

f. **Color/Appearance:** Coldbraz is available only in amber.

2. Packaging

Coldbraz is supplied in two standard units, each containing the exact proportions of liquid components and natural aggregate.

	<i>Small Unit</i>	<i>Large Unit</i>
<i>Binder</i>	<i>2 pt. (0.94 liter)</i>	<i>1-gal. (3.79 liter)</i>
<i>Activator</i>	<i>1 pt. (0.47 liter)</i>	<i>1/2 gal. (1.89 liter)</i>
<i>Mineral Filler</i>	<i>20 lbs. (9.1 Kg)</i>	<i>80 lbs. (36.3 liter)</i>
<i>Shipping Wt.</i>	<i>27 lbs. (12.2 Kg)</i>	<i>103 lbs. (46.7 Kg)</i>

3. Estimating/Coverage

Each unit of Coldbraz will yield the following:

<i>Unit</i>	<i>Yield</i>
<i>Small</i>	<i>0.18 cu. ft. (0.005 cu. m)</i>
<i>Large</i>	<i>0.76 cu. ft. (0.022 cu. m)</i>

4. Technical Data

Compressive Strength: ASTM C 109, 2 in. (50 mm) cubes.

<i>Age</i>	<i>Compressive Strength</i>
<i>1 day</i>	<i>10,800 psi (74.5 MPa)</i>
<i>3 days</i>	<i>11,500 psi (79.3 MPa)</i>
<i>7 days</i>	<i>13,000 psi (89.7 MPa)</i>

5. Directions for Use

a. **Preparation:** The surface to be repaired or patched must be physically and structurally sound, thoroughly clean, free of oil, grease and other deleterious materials that may prevent proper adhesion. Abrade or roughen the metal surface with a wire brush, emery cloth, sand paper or by sandblasting.

b. **Liquid Mixing:** Thorough blending of all components is essential. Use a power drill with a Metco Jiffy mixing paddle. First, mix the binder separately; then, mix the activator separately. Next, add the mixed activator to the mixed binder and thoroughly blend for at least two minutes at revolution speeds that will not entrap air bubbles into the freshly mixed Coldbraz.

c. **Priming:** Apply a small amount of the mixed Coldbraz (no aggregate) to the base substrate as a primer.

d. **Aggregate and Liquid Mixing:** After the binder and activator are completely mixed, add all the aggregate to the liquid compound and mix until all the aggregate is thoroughly coated with epoxy. The Metco Batch Mixer, which utilizes a 5-gal. (18.9 liter) pail is ideal for efficient mixing of the aggregate into the mixed epoxy compound.

e. **Application:** After the substrate has been primed, distribute the mixed epoxy repair compound onto the metal surface with a putty knife. Spread and smooth the Coldbraz while keeping tools wet with mineral spirits or kerosene to aid in finishing. When repairing a hole that extends through the substrate, seal one side with masking or duct tape to prevent the Coldbraz repair compound from escaping through the other side. Patches may be reinforced with wire screen or fiberglass fabric embedded and covered with Coldbraz. If a smooth surface is desired, simply allow the surface to dry to touch and re-apply a coat of neat epoxy mixture.

f. **Working Time/Pot Life:** Coldbraz must be applied immediately after mixing.

g. **Cure Time:** Coldbraz will harden in 6 hours but must be protected from abrasion and impact for at least 24 hours when applied at 72°F (22°C).

h. **Clean Up:** DL Solvent or Waterzall Concentrate and warm water may be used to clean tools and equipment.

i. **Maintenance:** Coldbraz surfaces should be cleaned with DL Solvent or a Waterzall Concentrate and water solution. Coldbraz may be re-applied to itself after proper surface preparation.

6. Availability

Coldbraz is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

7. Warranty

Coldbraz is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



Metalcrete Industries

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