

# Technical Datasheet

## Joint Shield 5200



Two-component, 100% solids, epoxy joint sealant

### Description

Two-component, 100% solids, epoxy joint sealant used for sealing joints as well as bonding steel to concrete in industrial coolers and freezers. Conforms to ASTM C-881 Type I, II, IV AND V, Grade 2, Class A, B and C.

### Primary Applications

- Joint sealant in below-freezing environments, including freezers

### Advantages

- Fast setting
- Cures at temperatures as low as -17°F (-27°C)
- Prevents joint sidewall spalling and chipping
- Non-sag consistency
- Easy 1:1 mix ratio
- USDA approved

### Packaging

- 22 oz. Quick Mix cartridges

**Technical information:** Physical properties at 77°F (25°C)

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

**Viscosity:** flowable gel

**Color:** concrete gray

Pot Life			
	60 grams	1/2gallon	Tack free (1/8")
90°F (32°C)	2 min	2 min	10 min
73°F (23°C)	3 min	3 min	11 min
50°F (10°C)	4 min	3 min	11 min

Test Data		
Compressive strength	8,200	ASTM D-575
Compressive modulus of elasticity	2.82 x 10 <sup>5</sup>	ASTM D-638
Tensile strength	5,500	ASTM D-638
Tensile modulus of elasticity	3.67 x 10 <sup>5</sup>	ASTM D-638
Bond strength (dry cure)- 2 day	3,060	ASTM D-4541
Bond strength (wet)- 14 day	3,400	A scale
Elongation	1.9%	ASTM D-638
Shore hardness	85	D Scale
Water absorption	.8%	ASTM D-570

Coverage: 231 cubic inches; 6 square feet per gallon; 1/8" thick= 12 square feet per gallon

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## Accessory Products

Prime Blend sand

## Directions For Use

### Mixing Ratio:

A:B 1:1 by volume

*Manual Mixing:* Quick Mix cartridges are recommended for this product because of its extremely quick set time. If bulk mixing is necessary, measure exactly 1 part "A" to 1 part "B" by volume in a clean dry pail. Only mix the amount of material that can be used within the pot life.

Note: This product sets up extremely fast. Be careful how much material you attempt to mix up at a time.

*Surface Preparation:* Surfaces must be clean and free of any dust, oil, grease, curing compounds or any other contaminants. Mechanical or blast cleaning is recommended whenever possible.

*Limitations:* Do not use backer rod. Do not use solvents to thin.

## Storage & Clean Up

*Storage:* Store in dry environment between 40° and 80°F (4.4 - 27°C). Do not allow product to freeze. Shelf life: 12 months from date of manufacture in unopened containers properly stored. Protect from moisture.

*Clean Up:* Clean equipment with MEK or Xylene immediately after use. Observe product cautions when using solvents. Clean skin with soap and water. Wash contaminated clothing before re-use.

## Environmental Protection

Cured material is environmentally safe. Dispose of in accordance to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local, state and federal regulations.

## Shipping

Shipping Class: More Freight Class 60

Hazard Classification: ORM-D

## Health & Safety

*Safety:* "B" component contains amines and may cause severe burns upon skin contact for any length of time. For use in well ventilated areas only to keep vapors low. Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only.

### First Aid

**Eye Contact:** Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area and wash with soap and water immediately.

## Manufacturing

Products manufactured by Prime Resins, Inc. in U.S.A. under strict quality assurance practices at our Conyers, GA plant.

## Warranty & Disclaimer

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.