

Technical Datasheet

Joint Shield 5500 polyurea 95A



Rapid set polyurea joint filler

Description

Joint Shield 5500 is a heavy duty, semi-rigid hybrid polyurea joint filler designed to fill and protect concrete joint edges and prevent sidewall spalling and chipping due to forklift traffic. This is a two-component, 100% solids, semi-rigid hybrid polyurea joint filler.

Primary Applications

- Protecting concrete joint edges and preventing sidewall spalling and chipping
- Filling random cracks in concrete floors
- Protect cold storage or freezer floors down to -20°F (-29°C)

Packaging

- 10 gallon units
- Quick Mix cartridges—box of 10
- Both Tube “A” and Tube “B” are 300 ml.

Advantages

- Traffic ready in 45 minutes or less
- Can be shaved off flush with floor in about 30 minutes for a seamless transition from slab to slab.
- Heavy duty— designed to protect joints from chipping and spalling due to high volume forklift traffic.
- Easy 1:1 mix ratio
- Self leveling
- Good compression and recovery properties
- Excellent abrasion resistance
- Excellent chemical resistance

Technical information:

Physical properties at 73°F (23°C)- Liquid
 Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Viscosity: 1200 - 1400 centipoise

Color: concrete gray

Test Data		
Pot Life	60 grams	Traffic ready
73°F (23°C)	2 min 45 sec	45 minutes

Test Data		
Tensile strength	1,017 psi (7.01 MPa)	ASTM D-412
Tensile elongation	165%	ASTM D-412
Bond strength (dry cure) - 2 day (concrete failure)	> 350 psi	ASTM D-4541
Shore hardness	95A	A scale
Coverage: 231 cubic inches per gallon. See 'coverage chart' for more information.		



Accessory Products

FlowMaster pump

Directions For Use

Mixing Ratio:

A:B 1:1 by volume

Material Preparation: Store material overnight to precondition to between 70 and 80°F (21 and 27°C) prior to use.

Manual Mixing: Pre-mix each component prior to combining. "B" component contains pigments, fillers and other chemicals that settle over time. Failure to properly pre-mix will result in uncured or improperly cured material. To prevent bubble formation, avoid introduction of air into mixed material by controlling drill speed and mixing method. Thoroughly mix materials using a low speed drill with a mixing paddle.

Limitations: Cold temperatures will slow down reaction time and increase viscosity. Material that is off ratio or not mixed thoroughly will not cure to full strength and may remain tacky indefinitely. Do not use with backer rod.

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: 6 months from date of manufacture in unopened containers properly stored. Protect from moisture.

Clean Up: Clean off skin with soap and water immediately.

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: UN3082

Hazard Classification: Other regulated substances, liquid, N.O.S., Class 9

Health & Safety

Safety: "B" component contains amines and may cause severe burns upon skin contact for any length of time. 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 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.