ZIIS DURAJOINT PU85

85 Durometer, 100% Solids Polyurea Joint Filler

DESCRIPTION

ZIIS DuraJoint PU85 is a two-component, rapid curing, polyurea control joint filler designed for heavy duty traffic and freezer applications. Its solvent free flexible design allows for 10 - 15 % movement of installed joint width. It may be used in temperatures between -40 °F and 120 °F (-40 °C and 49 °C).

USES

- Treats moving cracks
- Used to fill tooled interior/exterior control joints or new construction saw joints on horizontal concrete surfaces
- Protects joint edges from spalling due to wheeled traffic
- For best performance, the maximum joint width is 3/4 in. (19 mm) and joint depth should be a minimum of 3 times the width for industrial floor applications receiving heavy duty vehicle traffic
- Minimum depth can be reduced to 1/2 in. (13 mm) for foot traffic
- May be used for exterior applications when minimal joint movement from thermal cycling will occur
- Keeps joints free of debris and provides a continuous surface for weight loading

COLOR & RATIO

Part A (Resin) Amber: Part B (Hardener) Gray
Mixed Ratio: 1:1 by volume
Mixed Color - Gray

STORAGE & SHELF LIFE

12 months when stored in unopened containers in dry conditions. Store between 60 °F and 90 °F (16 °C and 32 °C).

ADVANTAGES

- The repaired crack or control joint can be shaved within a minimum of 30 minutes at 75 °F (24 °C)
- Complies with ACI 302.1R-15 Guide to Concrete Floor and Slab Construction regarding control and construction joint fillers
- **ZIIS DuraJoint PU85** may contribute toward satisfying credits of Indoor Environmental Quality for Low-Emitting Materials under LEED®
- Treated joints may be opened to foot and light vehicular traffic in 90 minutes at 75 °F (24 °C)
- Self-leveling, low viscosity system
- Wide application and service temperature range, including freezer applications
- Acceptable for use in USDA inspected facilities

SPECIFICATIONS

Joint filler material is a two-component, 1:1 ratio, solvent free polyurea system. The polyurea material will have a tensile strength of 5,103 psi (35.4 MPa) and elongation of > 250% per ASTM D638, after a seven-day cure and a temperature of 75 °F (24 °C). rate. Older concrete coverage rate will be 300 sq. ft. per gallon.

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JOINT PREPERATION:

ZIIS DuraJoint PU85 will accommodate 10-15 % movement but is not intended for joints subject to high movement. NOTE: Do not use in Expansion Joints; Use for exterior and interior control joints or slightly moving cracks.

- Concrete should be at least 28 days old and bonding surface must be dry
- Heavy Duty Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 3 times the width, or 2.2 in. (57 mm)
- Light Foot Traffic Areas: The joint width should be a maximum of 3/4 in. (19 mm); The depth should be a minimum of 1/2 in. (13 mm)

APPLICATION

For optimal results, substrate and environment should be completely dry without any presence of moisture prior to usage.

1. To fill cracks, use a saw or grinder with a dry diamond or concrete abrasive blade and cut along the crack opening it up to 1/8 in. to 1/4 in. wide. The edges must be a 90° angle to the surface (see Figure 2) to avoid a feathered edge,
2. See Joint Preparation section above for joint width/depth information.

To repair a control joint, fill all spalls with Vio-Repair Low Viscosity polyurethane and allow to cure. Recut the control joint to remove all filler materials and to reshape the spall repairs.

3. Blow out and remove all dust, dirt, debris, oil and any other contaminant from the control joint or crack.
4. Allow sufficient depth for joint filler based upon minimum recommended depth of filler. Place mixing nozzle directly over the joint or repair area.
5. Dispense material using full smooth trigger pulls (no short, choppy strokes) and allow material to gravity feed into the crack/joint. See Limitations and Warnings section for use of backer rod and sand warning.
6. For joints to be shaved, overfill the crack/joint so that material is slightly higher than the face of the concrete slab you are repairing.
7. Allow product to cure for a minimum of 30 minutes at 75 °F (24 °C) then use a sharp floor scraper to shave excess material from top surface. Full cure times are temperature dependent.

CLEAN UP

Always wear appropriate personal protective equipment such as safety glasses and gloves. Clean uncured materials from tools and equipment using a mild solvent or citrus cleaner. Cured material may only be removed mechanically using a sander or grinder. Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations.

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LIMITATIONS

- Not for use in expansion joints
- Color varies during cure and may discolor in exterior applications
- Remove standing water, dirt, debris, and any other possible bond breakers; substrate should be clean and dry for optimal results
- Product should not be stored once opened
- Cartridge balancing and crack repair instructions must be strictly followed
- Not intended for exterior or interior joints subject to high movement
- Resistance to traffic levels depends on sufficient bond area within the joint; deeper saw cuts provide more bond area for filler to resist loading; use of backer rod or sand in joints reduces bond area and will reduce load resistance
- Use of backer rod is not recommended for forklift traffic
- Before applying a topcoat, check with the coating manufacturer for compatibility with polyurea-based products; ZIIS is not responsible for coating incompatibility

IMPORTANT

The user assumes all risks when applying a topcoat. It is recommended to first try a small test area to confirm compatibility and performance. Incompatibility may result in discoloration or adhesion failure of topcoat. Safety: Please refer to the Safety Data Sheet (SDS) for **ZIIS DuraJoint PU85**.

MANUFACTURING

Products are manufactured by ZIIS (Utah Foam Products Inc.) in the U.S.A. under strict quality assurance practices at our Salt Lake City, UT plant.

WARRANTY & DISCLAIMER

ZIIS, (UTAH FOAM PRODUCTS INC.) WARRANTS ITS PRODUCTS TO BE FREE FROM MANUFACTURING DEFECTS AND THAT PRODUCTS MEET THE PUBLISHED CHARACTERISTICS WHEN TESTED IN ACCORDANCE WITH ASTM AND ZIIS STANDARDS. NO OTHER WARRANTIES BY ZIIS (UTAH FOAM PRODUCTS INC.) ARE EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ZIIS WILL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY CLAIMED BREACH OF WARRANTY. ZIIS' 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. THERE ARE NO WARRANTIES IF THE SUBSTRATES WERE NOT PROPERLY PREPARED; IF THE PRODUCTS WERE NOT PROPERLY MIXED; OR THE PRODUCTS NOT PROPERLY APPLIED.