

TECHNICAL DATA SHEET

DESCRIPTION

Slow Set Bonding Agent is a 100% solids, two component, high modulus, medium viscosity, moisture tolerant, long open time structural epoxy adhesive meeting the requirements of ASTM C-881 and AASHTO M-235.

USE

Slow Set Bonding Agent primary use is for bonding fresh concrete to hardened concrete or steel. Slow Set Bonding Agent has excellent adhesion to most construction materials.

FEATURES

- High strength structural adhesive meeting ASTM C-881 and AASHTO M-235
- Ideal for bonding fresh concrete to hardened concrete
- Very long open time
- Moisture tolerant
- Excellent adhesion to most materials

PROPERTIES

Meets Specifications: ASTM C-881, AASHTO M-235, Types I, II, & V, Grade 2, Classes B & C

Mix ratio: 2:1, part A to part B by volume

Color (mixed): Gray

Brookfield Viscosity (ASTM C-881): 6,300 cps

Gel times: 3.5 hours @ 73°F (23°C)

Compressive Yield Strength (ASTM D-695): 9,000 psi (62 MPa) @ 7 days

Compressive Modulus (ASTM C-695): 255,000 psi (1,758.2 MPa) @ 7 days

Concrete Bond Strength (ASTM C-882): 2 days 1,500 psi (10.3 MPa)

Tensile strength (ASTM D-638): 6,500 psi (44.8 MPa)

Elongation at break (ASTM D-638): 6.5%

Flexural Strength (ASTM D-790): 8,500 psi (58.6 MPa) (

Heat Deflection (ASTM D-648): 122 degrees F (50 C)

Water Absorption (ASTM D-570): 0.75%

Shrinkage (ASTM C883): Passes

Thermal Compatibility (ASTM C-884): Passes

VOC

Slow Set Bonding Adhesive has a VOC content of 0 g/L and is compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

Apply Slow Set Bonding Agent at a thickness of approximately 20 mils (80 sq. ft./gal., 1.96 sq. M/L).

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
140430	Unit	1	3.79
140434	Unit	3	11.36
140440	Unit	15	56.78

STORAGE

The material should be stored at 40° -95°F (5°-35°C). Shelf life of properly stored, unopened containers is 24 months.

APPLICATION

Surface Preparation:

Surface to be bonded must be clean and sound. Remove oil, dirt, grease, laitance, curing compounds and other foreign matter that may cause a problem with bond. Abrasive blast cleaning and mechanical removal methods are recommended.

Mixing:

Condition material to 65° - 85°F (18° - 29°C) before using. Premix each component then place 2 parts by volume of Component A and 1 part by volume of component B into a clean pail and mix for three minutes with a low speed drill using a Jiffy mixer or paddle until uniformly blended. Mix only what can be used within the pot life. Air, material, and surface temperatures must be 50°F (10°C) prior to mixing or installation.

Placement:

For bonding fresh concrete to hardened concrete, apply the Slow Set Bonding Agent material neat by brush, roller or spray and work into substrate. While the Slow Set Bonding Agent is still tacky, place the fresh concrete.

CLEAN UP

Tools and Equipment: Clean before the epoxy sets. Use xylene or Unitex Citrus Cleaner. Cured material can only be removed mechanically.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Minimum age of concrete must be 21-28 days from date of placement depending on curing and drying conditions. If the Slow Set Bond Adhesive is no longer tacky during bonding operations, and within 16 hours after application of the bonder, clean and solvent wipe the area and re-apply the Slow Set Bond Adhesive. If more than 16 hours has lapsed since application, the area must be lightly sanded or abraded and solvent wiped clean prior to re-application of the Slow Set Bond Adhesive.

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Do not thin with any solvents

Note: High temperatures will accelerate the setting time and cool temperatures will slow the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F and the gel time will double for each 10° to 15° drop below 75°F (24°C).

PRECAUTIONS**READ SDS PRIOR TO USING PRODUCT**

- Component A – Irritant
- Component B – Corrosive
- Product is a strong sensitizer
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements
- Cured epoxy resins are innocuous

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

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