



TECHNICAL DATA SHEET

DURAL® 340 SL, DURAL® 340 NS

Construction and Control Joint Sealant and Traffic Loop Sealant

07920

JOINT SEALANTS
THERMAL AND MOISTURE PROTECTION

1. **DESCRIPTION:** DURAL 340 SL and DURAL 340 NS are two component, 100% solids epoxy resin systems. DURAL 340 SL, self leveling grade, will protect joint edges and prevent spalling in control and relief joints. It is flexible, yet hard enough to resist the imbedding of sand, stones and dirt. It has high bond strength, good rigidity, chemical resistance to mild acids/alkalis, incidental contact with aromatic aliphatic solvents, and excellent thermal shock resistance. DURAL 340 NS is a non-sag version used for vertical surfaces or horizontal sloped surfaces.

2. **USES:** DURAL 340 SL and DURAL 340 NS are used for filling concrete construction joints, control joints, sawcut joints, and cracks in concrete and asphalt. It is also suitable for use as a traffic loop and wire sealant. DURAL 340 SL and DURAL 340 NS should not be used in expansion joints, or to repair any type of moving cracks.

3. **COMPOSITION AND MATERIALS:** DURAL 340 SL and DURAL 340 NS are two component, 100% solids epoxy joint sealants, with the following properties:

Material Properties @ 75°F		
	DURAL 340 SL	DURAL 340 NS
Mix Ratio (A:B by vol.)	1:1	1:1
Mixed Viscosity, (cps)	4-7,000	Gel
Gel Time (100 gm), mins	30-40	25-35
Pot Life (2 gal. unit), mins	15-20	10-15
Tack Free Time, hours	5-6	5-6
Hardness - Shore A, ASTM D2240	80-90	85-90
Tensile Strength, psi, ASTM D638	7-800	-
Tensile Elongation, %, ASTM D638	95-105	-
Values presented are typical and are not necessarily referenced to create specifications.		

4. **COMPLIANCE:** DURAL 340 complies with USDA guidelines.

5. **COLORS:** Light Gray is Standard. Custom Colors are available when minimum order criteria are met. Call Tamms Customer Service Center for additional information.

6. **SURFACE PREPARATION:** Surface must be structurally sound, dry, clean, free of dust, dirt, grease, oil,

coatings, laitance, and other contaminants that would interfere with proper adhesion. Surface should be abrasive blasted, or water blasted. Rout all cracks to at least 1/4 inch wide and deep. Saw-cut joints in concrete and/or asphalt should be thoroughly flushed with water under pressure, the joint should then be blow dried with oil free compressed air until all debris from sawing is removed from the joint. Joints must be completely dry before applying the DURAL 340 SL and DURAL 340 NS. Do not apply if rain is forecast within 18-24 hours.

7. **MIXING INSTRUCTIONS:** Premix Component A and Component B. Combine 1 part by volume of Component A to 1 part by volume of Component B and mix thoroughly with a slow speed motor and mixing blade. A 1/2 inch drill and Jiffy mixer is acceptable. **Do not thin.** Scrape the side and bottom of the mixing container to assure uniform and complete mixing. Mix for 2-3 minutes. Do not aerate mix.

8. **APPLICATION TECHNIQUES:** Gun DURAL 340 SL and DURAL 340 NS into the construction/control joints with a bulk caulking gun, pressure extruder, or other low pressure extrusion methods. Apply the sealant from the bottom of the joint up, to minimize voids or air pockets. Any topping off with product, and subsequent retooling of the joint should be done prior to the product achieving its initial set. When DURAL 340 is used as a traffic loop sealant, start at the highest elevation and pour into the sawed joint until it is filled to 2/3rd of its full depth. Allow DURAL 340 to settle around the wires. Immediately thereafter make a second application to completely fill the slot. Do not apply when temperature is below 50°F. Allow to cure for 24 hours at 75°F, or longer at colder temperatures, before opening to traffic.

9. **COVERAGE:** Approximate gallons per 100 linear feet of joint.

	Joint Width			
	1/4"	1/2"	3/4"	1"
1/4"	.33	.65		
3/8"		1.0	1.5	1.9
Joint 1/2"		1.3	1.9	2.6
Depth 3/4"		1.9	2.9	3.9
1"			3.9	5.2

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10. **CLEAN-UP INSTRUCTIONS:** Clean tools and equipment immediately after application with Xylene or Aromatic 100. Clean up spills and drips while still wet with the same solvents. Dried DURAL 340 SL and DURAL 340 NS will require mechanical abrasion for removal.

11. **PACKAGING:** 4 gallon cases, and 10 gallon units.
Storage: 50 to 90°F. Protect from moisture.
Shelf Life: 2 years in proper storage.

12. **CAUTIONS:** Do not thin DURAL 340 SL and DURAL 340 NS. Cure concrete a minimum of 28 days before application since the sealant acts as a vapor barrier. Do not store below 50°F or above 90°F. Do not apply to frozen or frost filled substrates, or when the temperature is below 50°F, or expected to fall below that temperature within 24 hours. Not intended for areas subject to constant immersion. Not intended for areas subject to prolonged or strong chemical attack. Not intended for expansion joints or to repair any type of moving cracks. When using on asphalt substrates a test patch is recommended to evaluate bond.

13. **ENVIRONMENTAL SAFETY PRECAUTIONS:**
Industrial Use Only. Component "A": Contains epoxy resin. Vapors can cause respiratory irritation. Contact can cause skin or eye irritation. Can cause sensitization after prolonged or repeated exposure. Use of safety goggles and chemical resistant gloves is recommended. Use only with adequate ventilation.
Component "B": Is CORROSIVE. Contains amines. Contact with eyes or skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use of safety goggles and chemical resistant gloves is highly recommended. Use only with adequate ventilation.
First Aid: In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Consult physician immediately. For respiratory problems, remove person to fresh air.
Disposal: Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations. READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY.
KEEP AWAY FROM CHILDREN AND ANIMALS.
EMERGENCY RESPONSE: 1-800-862-2667 (TAMMS) 1-800-424-9300 (CHEMTREC).

14. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES
3835 State Route 72, Kirkland, IL 60146
800-862-2667 FAX: 815-522-2323
www.tamms.com

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