



DURAL 340 NS, DURAL 340 SL

CONSTRUCTION AND CONTROL JOINT FILLER AND TRAFFIC LOOP SEALANT

PACKAGING

Dural 340 NS

4 gal (15.5 L) unit

Code: TD5372104501 (Std Gray)

Code: TD5372104 (Neutral Base)

Dural 340 SL

4 gal (15.5 L) unit

Code: TD5370104501 (Std Gray)

Code: TD5370104NC (Neutral Base)

APPROXIMATE COVERAGE

1 gallon (3.79 L) of material yields 231 in³ (3785 cm³).

CLEAN UP

Clean tools and equipment immediately after application with acetone. Clean up spills and drips while still wet. Dried DURAL 340 NS and DURAL 340 SL will require mechanical abrasion for removal.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- Complies with ACI 302 performance recommendations regarding control and construction joint fillers.

DESCRIPTION

DURAL 340 NS and DURAL 340 SL are two-component, 100% solids, semi-rigid epoxy joint fillers. DURAL 340 SL is available in a Standard Gray color and a Neutral Base, that can be colored with EUCLID UNIVERSAL COLOR PACKS; available in 33 standard colors. DURAL 340 NS is available in Standard Gray.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Protects joint edges and prevents spalling in control joints
- High bond strength
- Resistance to mild acids/alkalis and incidental contact with aromatic solvents
- Excellent thermal shock resistance
- DURAL 340 NS is a non-sag version used for vertical surfaces or sloped horizontal surfaces
- DURAL 340 SL is a self-leveling formulation used for horizontal surfaces
- 33 colors available using color packs

PRIMARY APPLICATIONS

- Filling concrete construction joints
- Control joints
- Wire sealant
- Cracks in concrete
- Traffic loop sealant

APPEARANCE

DURAL 340 SL is available in Standard Gray, and in a Neutral Base that can be colored using EUCLID UNIVERSAL COLOR PACKS, which are available in 33 standard colors. See the EUCLID UNIVERSAL COLOR CHART for available colors. Dural 340 NS is available in Standard Gray.

COVERAGE

The following table gives rough guidelines on estimating the amount of material needed. These numbers represent the length of joint that can be filled with 1 gallon (3.79 L) of material, based on the joints' width and depth.

| Joint Width | Joint Depth | | | | |
|----------------|-----------------|-----------------|-----------------|----------------|----------------|
| | 1" | 1.5" | 2" | 2.5" | 3" |
| 3/32" (2.4 mm) | 205 ft (62.5 m) | 136 ft (41.5 m) | 102 ft (31.1 m) | 82 ft (25.0 m) | 68 ft (20.7 m) |
| 1/8" (3.2 mm) | 154 ft (46.9 m) | 102 ft (31.1 m) | 77 ft (23.5 m) | 61 ft (18.6 m) | 51 ft (15.5 m) |
| 3/16" (4.8 mm) | 102 ft (31.1 m) | 68 ft (20.7 m) | 51 ft (15.5 m) | 41 ft (12.5 m) | 34 ft (10.4 m) |
| 1/4" (6.4 mm) | 77 ft (23.5 m) | 51 ft (15.5 m) | 38 ft (11.6 m) | 30 ft (9.1 m) | 25 ft (7.6 m) |
| 3/8" (9.5 mm) | 51 ft (15.5 m) | 34 ft (10.4 m) | 25 ft (7.6 m) | 20 ft (6.1 m) | 17 ft (5.2 m) |
| 1/2" (12.7 mm) | 38 ft (11.6 m) | 25 ft (7.6 m) | 19 ft (5.8 m) | 15 ft (4.6 m) | 12 ft (3.7 m) |

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

| Test Method | Test Property | DURAL 340 SL | Dural 340 NS |
|-------------|----------------------------------|-------------------|--------------|
| - | Mix Ratio (A:B by volume) | 1:1 | 1:1 |
| ASTM D2196 | Mixed Viscosity | 4,000 to 7,000 cp | Gel |
| - | Gel Time 100 g, minutes | 50 to 60 | 50 to 60 |
| - | Pot Life (full unit), minutes | 30 to 45 | 30 to 45 |
| - | Tack-Free Time hours | 5 to 6 | 5 to 6 |
| ASTM D2240 | Shore A Hardness | 80 to 90 | 85 to 90 |
| ASTM D638 | Tensile Strength | 800 psi (5.5 MPa) | - |
| ASTM D638 | Tensile Elongation | 95% to 105% | - |

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DIRECTIONS FOR USE

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 in (0.63 cm) wide and deep. Saw-cut joints should be thoroughly cleaned so that debris from sawing is removed from the joint. The final step in cleaning should be the complete removal of all residue by use of oil-free compressed air, or re-cutting the joint, followed by vacuuming. Joints must be completely dry before installing DURAL 340 NS and DURAL 340 SL.

Mixing: Premix Part A and Part B separately. Combine 1 part by volume of Part A to 1 part by volume of Part B and mix thoroughly with a slow speed motor and mixing blade. A 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 to 3 minutes. Do not aerate mix.

Euclid Universal Color Packs: DURAL 340 SL can be colored using 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 4 gal (15.5 L) unit and 2 EUCLID UNIVERSAL COLOR PACKS (EUCO Pack) per 10 gal (37.85 L) unit. Prior to mixing the unit together, stir the appropriate amount of colors packs into the part "A" side of the product until it is fully dispersed. Proceed with mixing as stated above. EUCLID UNIVERSAL COLOR PACKS are available in 33 standard colors, see EUCLID UNIVERSAL COLOR CHART for available colors.

Application: Gun DURAL 340 NS and DURAL 340 SL into the joints with a bulk caulking gun, pressure extruder, or other low pressure extrusion methods. Apply the material from the bottom of the joint upward to minimize voids or air pockets. Any topping off or subsequent retooling of the joint filler 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 2/3 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 (10 °C). Allow to cure for 24 hours at 75 °F (24 °C), or longer at colder temperatures, before opening to traffic.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50 to 90 °F (10 to 32 °C).
- Do not apply to frozen or frost filled substrates, or when the temperature is below 50 °F (10 °C), or expected to fall below that temperature within 24 hours.
- Protect from moisture. Do not apply to exterior surfaces if rain is forecast within 24 hours.
- Not intended for areas subject to constant immersion.
- Not intended for areas subject to prolonged or strong chemical attack.
- Do not thin DURAL 340 NS and DURAL 340 SL.
- Cure concrete a minimum of 28 days before application since the sealant acts as a vapor barrier.
- 1 EUCLID UNIVERSAL COLOR PACK (EUCO Pack) per 4 gal (15.14 L) unit and 2 EUCLID UNIVERSAL COLOR PACKS (EUCO Pack) per 10 gal (37.85 L) unit. DURAL 340 NS & SL are not UV stable. If aesthetics are a major issue, consider using EUCO QWIKJOINT UVR polyurea joint filler.
- DURAL 340 NS and DURAL 340 SL should not be used in expansion joints, or to repair any type of moving cracks.
- In all cases, consult the Safety Data Sheet before use.

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