



DURAL 340 NS, DURAL 340 SL

CONSTRUCTION AND CONTROL JOINT FILLER AND TRAFFIC LOOP SEALANT

EUCLID CHEMICAL

PACKAGING

Dural 340 NS

4 gal (15.1 L) unit

Code: TD5372104501 (Std Gray)

Dural 340 SL

4 gal (15.1 L) unit

Code: TD5370104501NC (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	1" (25 mm)	1.5" (38 mm)	Joint Depth 2" (51 mm)	2.5" (63 mm)	3" (76 mm)
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: All joints to be filled must be clean and dry. All oil, dirt, debris, curing compounds, sealers, paint, coatings, and any other material that may be a bond breaker must be removed. All joint facings must possess an open surface texture. Simply raking debris out of the joint with hand tools is not sufficient. Mechanically cleaning the joints by recutting with a dustless concrete saw, using a wire wheel abrader, or sandblasting are preferred methods. The final step in cleaning must be the complete removal of all residue by vacuuming or by use of oil-free compressed air. If this product will be used for filling floor cracks, the cracks must be routed out and cleaned before filling. For proper installation, all edges must be squared off. 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 (15.1 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 (15.1 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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