



## PRODUCT DATA SHEET

➤ ADMIXTURES

➤ ADHESIVES

➤ WATERPROOFING

➤ SURFACE TREATMENTS

➤ CONCRETE REPAIRS

➤ INDUSTRIAL FLOORINGS

➤ SEALANTS

➤ FUMIGATION

➤ GROUTS & ANCHORS

## DURA EPO-GRIP LS

### BI-COMPONENT EPOXY BASED ANCHORING GROUT SYSTEM

DURA EPO GRIP LS represents a premium-grade, high-strength epoxy grouting solution meticulously engineered for the secure anchoring of machine and equipment bases across diverse applications. Tailored to accommodate both thin and thick sections, this formulation is versatile, making it ideal for grouting bases of varied configurations. Its exceptional composition ensures robust strength and heightened resistance to corrosive chemicals, positioning DURA EPO GRIP LS as the premier choice for enduring grouting projects.

### UTILIZATIONS

- Pumps, compressors, and fans
- Deep-fill machine bases
- High-strength applications, including crane rails
- Tanks, turbines, and housings
- Large anchor bolts and keyways

### FEATURES & ADVANTAGES

- Rapid setting for quick return to service
- Remarkable chemical resistance
- Outstanding load-bearing capacity
- Superior bond between foundation and base plate
- Stability in deep or thick sections

### PACKAGING

DURA EPO GRIP LS is available in 2 kg and 1 kg packaging options.

### VISUAL APPEARANCE

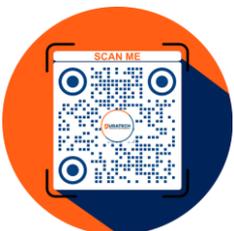
DURA EPO GRIP LS is a two-part epoxy grout system. Following the meticulous mixing and placement process, its colour closely resembles that of concrete, although the grout may exhibit a slightly darker tone compared to the surrounding concrete, ensuring a seamless finish.

### STORAGE AND SHELF LIFE

The shelf life of DURA EPO GRIP LS extends to one year when stored in its original, unopened packaging, ensuring product integrity and performance.

### SPECIFICATIONS / COMPLIANCES

DURA EPO GRIP LS aligns with the stringent requirements of ASTM C 307, Type I, Grade II, Class A. Additionally, DURA EPO GRIP LS complies with the thermal compatibility standards



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outlined in ASTM C 884.

#### DIRECTIONS FOR APPLICATION

##### SURFACE PREPARATION:

For optimum results, new concrete surfaces must have aged a minimum of 28 days. Ensuring cleanliness and a textured surface is imperative. Elimination of oil, dirt, debris, paint, and compromised concrete is essential. Mechanically preparing the surface using tools such as a scabber, bush-hammer, shot-blast, or similar equipment is recommended to achieve a minimum surface profile of 1/8" (3 mm) and expose the concrete's coarse aggregate. The final cleaning step should involve thorough residue removal, either through vacuuming or pressure washing. While acid etching is deemed acceptable when mechanical preparation is impractical, it is advised that only experienced contractors employ this method. In such cases, thorough pressure washing is mandatory to eliminate reaction salts, and the concrete should be allowed to fully dry.

**Note:** Despite following proper procedures, an acid-etched surface may not yield as robust a bond as mechanical preparation methods. It is crucial that all concrete surfaces exhibit an open texture, free from curing compounds and sealers.

##### FORM PREPARATION

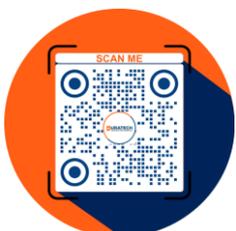
To ensure an impermeable and robust foundation, forms must exhibit liquid-tight properties, preventing any potential leakage. Additionally, they should possess substantial strength and be adequately braced. Enhancing the ease of stripping, a meticulous application of two coats of paste wax or individual wrapping with Polyethylene for each form piece is recommended.

##### ANCHOR BOLT HOLES AND BLOCK-OUTS

Prior to grouting, meticulous preparation of anchor bolt holes and block-outs is imperative. These openings should be thoroughly cleansed of all dust, dirt, and debris, followed by a complete drying process. If the hole surfaces exhibit smoothness, it is advised to impart texture by using a stiff bristle wire brush or a rotary brush hammer, where access permits.

##### MIXING PROCEDURE

The amalgamation of resin (Part A) and hardener (Part B) is a critical step, demanding precision and thoroughness. Utilize a drill and an appropriate mixing prop to blend both components for a minimum of 2 minutes. For optimal mixing efficiency, introduce Part B into Part A, avoiding the reverse sequence. This meticulous mixing process is paramount to ensure a complete and proper chemical reaction within the epoxy.



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#### PRECAUTIONS / LIMITATIONS

- When handling epoxy materials, it is imperative to wear protective gloves and eyeglasses to ensure safety.
- Avoid application over frozen concrete surfaces.
- Prior to use, store the material at room temperature.
- Grouting activities should be conducted within ambient temperatures ranging from 40°F to 90°F (4°C to 32°C).
- Recognize that temperature extremes significantly impact the rate of strength gain, warranting consideration during application.

#### PLACEMENT PROCEDURE

For precise placement, introduce the grout into anchor bolt holes and block-outs either through a funnel or directly, if the available space permits. When grouting plates, channel the grout into the head-box and facilitate its flow beneath the plate. The strategic pre-placement of straps beneath the plate assists in the systematic distribution of grout. It is recommended to maintain a minimum grout thickness of 1" (25 mm) and a maximum of 6" (152 mm) per lift for substantial masses.

**Note:** Optimal working conditions are achieved by ensuring that all ULTRALOCK E3-G materials, foundation, and base-plate are brought as close to 70°F (21°C) as possible. Cold temperatures can significantly impede flow characteristics and pose challenges in base-plate grouting. Conversely, higher temperatures enhance initial flow but reduce the available working time.

#### CURING PROCESS

DURA EPO GRIP LS boasts a straightforward curing protocol, requiring no special procedures beyond standard industry practices.

#### CLEAN-UP PROCEDURES

Efficiently clean tools and mixers using Ultra Solvent, Xylol, or Ketone Solvent.

#### STORAGE GUIDELINES

Exercise caution by avoiding direct exposure to sunlight, and consistently store the materials in shaded areas to preserve their integrity and performance.



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TECHNICAL INFORMATION						
Typical Engineering Data						
Bar Dia (mm)	Yield Strength (tons)	Hole Dia (mm)	Minimum Hole Depth (mm)			
			280	250	225	200
12	5.2	20	280	250	225	200
16	9.3	20	490	445	400	355
20	14.5	25	615	555	500	440
25	22.5	32	750	675	615	540
32	37	38	1035	930	845	745
40	57.8	45	1365	1225	1115	980
<b>Compressive Strength</b>						
ASTM C-579 2" ( 50 mm) cubes at 70°F (21°C)						
<b>Age Strength</b>						
Days	Strength					
	( Pa)	psi				
1	42	6090				
3	74	10800				
7	90	13000				
<b>STRAIN DATA ,ASTM C-1181</b>						
DAYS	STRAIN					
	x 10 <sup>-4</sup> /in/in	x 10 <sup>-4</sup> mm/mm				
3	2.8	2.8				
7	2.9	2.9				
28	4	4				
Coefficient of Thermal Expansion						
ASTM C-531 2.6 x 10 <sup>-5</sup> in/in/°F(4.5 x 10 <sup>-5</sup> mm/mm/°C)						
<b>Bond to Concrete</b>						
Exceeds tensile and shear strength of concrete						
Impact Resistance						
Greater than concrete						
<b>Chemical Resistance</b>						
ASTM D-543 ,excellent resistance to most chemicals.						
Specific Recommendations available upon request.						
<b>Abrasion Resistance</b>						
Greater than concrete						
Flexural Strength						
Days	Strength					
	Psi	Pa				
1	3500	24				
3	3700	25				
7	3800	26				
28	4205	29				
<b>Modulus Of Elasticity</b>						
ASTM C 580						
Days	Strength					
	Psi	pa				
1	100	650				
28	130	875				
<b>Tensile Strength</b>						
ASTM C 580						
Days	Strength					
	Psi	Pa				
3	2000	14				
7	2000	14				
28	2000	14				
Gel Time,ASTM D2471 @ 86oF (30oC)						
90 minutes						



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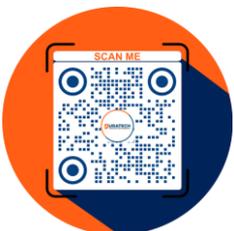
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**WARRANTY:**

Duratech Construction Chemicals ("Duratech") affirms and warrants exclusively that its products shall be devoid of any defects in materials and workmanship for a duration of six (6) months from the date of purchase. Without written authorization from a designated Duratech officer, no other statements or representations made by Duratech or its representatives, whether conveyed in written or oral form, shall have the authority to modify this warranty. Duratech explicitly **DISCLAIMS ALL WARRANTIES, IMPLIED OR OTHERWISE**, pertaining to the merchantability or fitness for ordinary or specific purposes of its products. In the event of any Duratech product failing to meet this warranty, Duratech commits to replacing the product at no expense to the Buyer.

The replacement of the product stands as the sole and exclusive remedy available, and the Buyer shall not have any entitlement to claims for incidental or consequential damages. Any claims under this warranty must be initiated within one (1) year from the date of the alleged breach. Duratech expressly does not empower any individual on its behalf to make written or oral statements that would alter the installation information or instructions found in its product literature or on packaging labels. Any installation of Duratech products that deviates from such information or instructions will result in the voidance of this warranty. Product demonstrations, if conducted, serve purely as illustrations and do not constitute a warranty or modification of any nature. The Buyer assumes complete responsibility for evaluating the suitability of Duratech's products for their intended purposes.



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