

DURAL HS GEL



EUCLID CHEMICAL

Product Overview

DURAL HS GEL is a two component, 1:1 mix ratio, structural epoxy system that offers exceptional strength in anchoring and doweling applications and can be installed from 4 to 43°C. DURAL HS GEL has been tested in accordance with ASTM E488 and ASTM E1512 for its ability to resist static, dynamic, seismic and wind loads in uncracked concrete for both threaded rod and rebar.

Features & Benefits

- Moisture insensitive - allowing installation and curing in damp environments.
- Withstands freeze-thaw conditions.
- Little to no odour.
- High modulus.

Typical Applications

- Anchoring threaded rods, bolts and rebar dowels into uncracked concrete.
- Short and long term tensile anchoring.
- Grouting dowel bars and tie bars.
- Pick-proof sealant for jails/prisons and kennels.
- Bonding agent for fresh to hardened concrete, and hardened to hardened concrete.
- General purpose epoxy adhesive.
- Setting of injection ports and sealing cracks for crack injection.



Typical Performance Properties

PROPERTY		STANDARD	RESULT AT CONDITIONING TEMPERATURE		
			CLASS A - 3°C	CLASS B - 10°C	CLASS C - 24°C
Consistency		ASTM C881	6.4 mm		
Pot Life		ASTM C881	13 minutes		
Gel Time (60g mass)		ASTM C881	38 minutes	20 minutes	14 minutes
Bond Strength	2 Days	ASTM C882	19.7 MPa	22.8 MPa	24.7 MPa
	14 Days		19.2 MPa	28.2 MPa	27.2 MPa
Water Absorption	14 Days	ASTM D570	0.53%		
Heat Deflection Temperature	7 Days	ASTM D648	56°C		
Linear Coefficient of Shrinkage		ASTM D2566	0.002		
Compressive Modulus	7 Days	ASTM D695	1,441 MPa	1,455 MPa	1,682 MPa
Compressive Yield	1 Day	ASTM D695	-	-	78.8 MPa
	2 Days		-	-	79.2 MPa
	3 Days		-	-	78.9 MPa
	7 Days		74.9 MPa	72.3 MPa	78.7 MPa

1. The above are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.
2. Results are based on testing conducted on a representative lot(s) of product. Results will vary according to the tolerances of the given property.
3. Results may vary due to environmental factors such as temperature, moisture and type of substrate.
4. Pot life is measured as the workable time of 3.8 L of DURAL HS GEL when mixed at 24°C.

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Tremco Construction Products Group (CPG) represents the combined power of brands including Nudura, Willseal, and Tremco, along with Tremco CPG affiliates Flowcrete, illbruck, Nullifire, Duram and Euclid Chemical.

