

DURA BUILD CARE PVT. LTD.



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“Quality, Integrity Assured.”

DURAXYGROUT – LV

Low viscosity epoxy based injection grout

Description & Use:

Duraxy Grout LV is a solvent free, low viscosity injection liquid based on high strength epoxy resin. After mixing, it is injected into cavities and cracks in concrete where it cures to a rigid, high strength material.

Duraxy Grout LV is supplied as two-pack system of low viscosity material consisting of **Pack A** (Liquid Base) and **Pack B** (Liquid Hardener).

Standards & Specifications:

Meets the requirement of BS 6319 & ASTM C 881 standards.

Special Feature:

- Low Viscosity : Ensures deeper penetration into finest of cracks
- Dynamic load Resistant : Designed for service under severe operating condition.
- High Bonding Strength : High strength Epoxy Resin – adhesion to all contact surfaces.
- High Strength : High compressive, Flexural and tensile strength.
- High Chemical Resistant : To acids, alkalies and water of aggressive salts.
- Non-Shrink : No loss of surface contact or bond.
- Durability : Well proven for over decades.
- Versatility : Grades for cold and hot weather and also normal ambient conditions are available. Can be used in dry, wet or damp conditions/no standing water.

Area of Use:

It is used to fill and seal cavities and cracks in structural components such as columns, beams, foundations, decks and water retaining structures.

Application:

Surface Preparation: Concrete should be a minimum of 3-4 week's old. Surfaces should be sound, clean and free of oils, grease or other contaminants. Laitance should be removed from concrete by mechanical means. Metal surfaces must be well-brushed or blasted to remove all traces of rust. Bolts and metal surfaces should be de-greased.

Mixing: Mix all the hardener (slightly ambered coloured **Pack B**) into slight yellow coloured base (**Pack A**) and mix well. Mix so as not to entrap air into the product. Mix for 2-3 minutes, using drill and paddle (max. 500 RMP) until smooth consistency and homogeneous mixture of uniform colour is achieved. Mix only sufficient material for immediate requirement, leave the thoroughly mixed material

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to stand for 2 or 3 minutes to enable entrapped air to escape from the mix and then use as quickly as possible.

Depending on the nature of work to be carried out, various methods and equipments can be used; therefore kindly contact our technical department for the same. Generally, use automated injection equipment or manual method. Use appropriate injection ports based on system used. Duraxy RM may be used as an adhesive to seal pores and cracks. Thereafter Duraxygrout LV may be injected with steady pressure

Cleaning: Tools should be cleaned with **Duraxy** cleaner (every 30 minutes). **Duraxy** cleaner is flammable. Hardened material should be removed mechanically.

Technical Data (Typical):

Properties	Specifications	Results
Colour		Beige
Density, kg/m ³		1050
Mixed Viscosity (2A+1B) @ 27°C, cps	ASTM D 2556	500-1000
Pot Life for 100g mass @ 30°C, mins	ASTM C 881	30-40
Pot Life for 100g mass @ 25°C, mins		40-60
Pot Life for 100g mass @ 25°C, mins		60-70
Initial Setting Time @ 27°C, Hrs		6
After 7 days curing @ 25°C:		
Compressive Strength, MPa	ASTM D 695	70
Tensile Strength, MPa	ASTM D 638	50
Flexural Strength, MPa		60
Compressive Modulus, MPa	ASTM D 695	1650
Bond Strength, KN	ASTM C 882	Concrete Failure
Water Absorption, %	ASTM D 570	<1
Linear Coeff. of Shrinkage,	ASTM D 2566	<0.005
Flow Characteristics	Determined by gap width and pressure applied	

Precaution and Limitation:

- Minimum substrate and ambient temperature must be greater than 5°C. Epoxy grout should be protected from temperature extremes.
- Do not thin with solvents. Consult our Technical Services.
- Not for injection of cracks under hydrostatic pressure at the time of application.
- Do not inject cracks greater than 1/4 in. (6 mm) Consult Technical Service.
- Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure

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- Important** : Duraxy Grout L, S & LV should not be kept in bulk longer than pot life, as substantial heat will develop. Exothermic. Shrinkage during cure : Negligible.
- Storage** : 12 months if kept unopened.
- Health & Safety** : Pack A & Pack B are inflammable. Refer MSDS.
- Packing** : Duraxy Grout LV : Pack A + Pack B : In 1 & 3 kg.



IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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●WATER PROOFERS ●POLYMER MODIFIED FOR CEMENT ●ADMIXTURE/PLASTICISER ●EPOXY PRODUCTS ●EPOXY BONDING AGENT●
●FLOORING COMPOUNDS ●GROUTING COMPOUNDS ●REPAIR MATERIAL ●CURING COMPOUNDS ●TILE ADHESIVE & GROUT●
