

GENERAL DESCRIPTION

AXEL EPROJECT 304i-LV is a low viscosity, two component epoxy system designed to penetrate and bond cracks in concrete structures. It is also formulated as a structural adhesive for bonding to various substrates and because of its "built in" high affinity to concrete, it is also to penetrate deep into the crack due to its low viscosity properties.

RECOMMENDED USES

Use as grouting agent for cracks and casting.

- * Bridges decks
- * Parking decks
- * Also use to fill up void or honeycomb in concrete, timber, rubber and plastic substrates
- * Horizontal concrete slab structures
- * Structural bonding of old to old concrete
- * Structural bonding of fresh to hardened concrete

CHARACTERISTICS & ADVANTAGES

- * Low odor
- * Excellent bonding strength
- * Non-toxic in cured form
- * Some reaction with salty or contaminated water
- * Low viscosity
- * Longer pot life
- * Resistant to biological attack

COVERAGE

Theoretical Coverage: Depending on size of crack

COLOURS

Clear to yellowish

PACKING

5 kg per set 20 kg per set

STORAGE

Store in a dry, cool and shaded place



SURFACE PREPARATIONS

The substrate must be clean and free from oil, grease, curing compounds, loose particles and other contaminants. Cleaning may be accomplished in some cases by blowing the crack with high pressure air. Cracks in high traffic areas may require high pressure water jetting (3000-5000 psi) to remove the silt line and allow maximum penetration. New concrete structures should be cured for at least 28 days

METHOD OF APPLICATION

- * Pre-mix each component thoroughly. Mix **AXEL EPOJECT 304i-LV** Part A and Part B thoroughly until uniformly blended.
- * Position displacement pressure injection pump for injecting into vertical concrete structures. For horizontal concrete structures application can be performed by gravity feed.
- * To bond fresh concrete to hardened concrete or old to old concrete with brush, broom, roller or spray to concrete substrate. Place the fresh concrete or join the old concrete to the substrate while **AXEL EPOJECT 304i-LV** is tacky.

Notes: **AXEL EPOJECT 304i-LV** will be hardening and cannot be kept once Part A and Part B are mixed together. Thus, mixing (in correct proportion) according to required usage to prevent material wastage.

CLEANING OF TOOLS

Clean all tools and application equipment with solvent immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No of components	Two
Mixing ratio	3 : 1 (A:B)
Specific gravity (mixture)	1.1 kg/l
Viscosity (mixture)	~90 cps
Compressive strength - 7days	> 70 Mpa BS EN 12390 Part 3
Tensile strength	~40 Mpa
Adhesion on concrete	Good. Concrete failure
Working time (25°C)	> 1 hours
Full cure	7 days
Application temperature	10 to 35°C

EPOJECT 304i-LV

Low Viscosity Epoxy Penetrating
Concrete Crack Adhesive

SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

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