

CAT. No. CONREP-06-2010

ISOPOX IH 3010

Two – Component Epoxy System

ISOPOX IH 3010 is a high modulus, two-component epoxy bonding system consisting of epoxy resin and amine-type hardener. It is a 100% reactive system and solvent-free. It is designed as a moisture-insensitive adhesive and binder for numerous application needs and available in low viscosity(LV), medium viscosity(MV) and mastic(GEL) consistency.

APPLICATIONS

LV

- Sealing Porous Concrete
- Priming
- Binder for epoxy mortars and epoxy concrete
- Sealing horizontal cracks

MV

- Priming
- Universal glue/adhesive

GEL

- Universal glue/adhesive (e.g. bonding wood-wood, wood-steel, steel-concrete, ceramics etc.)

SPECIFICATIONS

LV grade complies with ASTM C881, Types 1,3,4, Grade 1, Class B, C, D, E and F.

MV grade complies with ASTM C881, Types 1, 2, 3, 4, 5, Grade 2, Class B, C, D, E and F.

GEL grade complies with ASTM C881, Types 1, 2, 3, 4, Grade 3, Class B, C, D, E and F.

ADVANTAGES

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| <ul style="list-style-type: none"> • High Mechanical Strengths • Highly resistant to aggressive chemicals • Corrosion/ Abrasion resistant | <ul style="list-style-type: none"> • Universal adhesive • Waterproof • Moisture insensitive |
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TYPICAL PROPERTIES

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|--|---|
| <ul style="list-style-type: none"> • Solid content • Pot life @ 45/35/25°C • Touch dry • Volume shrinkage • Full Cure | <p>100%</p> <p>15/30/60 minutes</p> <p>Within 16 hours</p> <p>Nil</p> <p>3 - 7 days</p> |
|--|---|

	<u>LV</u>	<u>MV</u>	<u>GEL</u>
• Compressive Strength, N/sq.mm	85	96	95
• Flexural Strength, N/sq.mm	45	43	43
• Tensile Strength, N/sq.mm	35	33	33
<i>(Note * Mechanical strengths tested at 7 days)</i>			
• Water absorption, % by mass	0.50	0.56	0.54
• Bound Strength(direct pull out), N/sq.mm	+3 (greater than cohesive strength of concrete)		

DIRECTIONS FOR USE

SURFACE PREPARATION

- Concrete: Shall be structurally sound, clean and free from dust, oil, laitance, grease curing compounds, sealers and other foreign matter, shall be dry and fairly rough.
- Steel/Metal: Shall be clean and free from oil, grease or loose rust. Chemical degreasing may be required in some cases.
- Wood: Shall be clean and free from varnish, lacquer coatings. Shall be roughened/abraded with emery paper.

MIXING

Stir the contents of Part B and transfer to Part A container. Mix manually for at least 3 minutes then transfer to a shallow container. Use immediately within the indicated pot life. Part mixing is not recommended.

- Bonding Skid – Resistant material to concrete:
 - Use LV applied at the rate of 4 – 4.5 sq.m per kg.
- Bonding Epoxy mortar to Concrete:
 - Use LV applied at the rate of 4.5sq.m per kg.
 - Use MV applied at the rate of 4 sq. m per kg (best used on vertical applications).
- Binder in Epoxy Mortars/Concrete:
 - LV can be used at varying resin-filler ratios, consult ACI for specific applications.
- Bonding wood to wood or as a universal adhesive:
 - Use GEL applied at the rate of 4 sq. m per kg
- Sealing Porous Concrete:
 - Use LV diluted with Xylene (10% by volume of total). Apply at the rate of 5-6 sq. meters per kg.

CLEANING

Fresh epoxy can be cleaned-off from tools using ISOKLEEN.

PACKING/ COVERAGE

	<u>0.450 kg kit</u>	<u>0.8kg kit</u>
LV	1.8 - 2 sq. m	3.2 – 3.6 sq. m.
MV	1.8 sq. m	3.2 sq. m
GEL	1.8 sq. m	3.2 sq. m

SHELF LIFE

At least one (1) year in original, unopened container stored in warehouse below 32⁰Celsius.

HEALTH/ SAFETY

Epoxy resin are considered skin irritants. Always wear protective clothing, rubber hand gloves and eye goggles when using epoxies. Avoid contact with skin or eyes. If spilled on the skin, wash immediately with water and soap. Accidental splashes to the eye should be cleaned immediately with water. If irritation persist, consult physician. For more details, refer to separate material safety data sheet.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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