

Iso-Flex® Rail Grout

Manufactured by LymTal International

PRODUCT DESCRIPTION

Iso-Flex Rail Grout is a two-component, aliphatic polyurethane elastomer. It cures to a medium hardness and durometer which enables the product to support a load with minimal deflection, absorb vibration and low movement without cracking. Iso-Flex Rail grout has good chemical resistance to common petroleum products, mild acids and alkalis.

ADVANTAGES

- Preproportioned - easy to mix and install.
- Remains flexible over a wide temperature range.
- Cures at temperatures down to 32°F.
- Can be coated or painted in 16 to 24 hours.
- Bonds to concrete and steel.
- Extended with aggregate 2:1 by volume.
- Has excellent weatherability.
- Can be used in direct sunlight.
- Moisture insensitive.

BASIC USE

Iso-Flex Rail Grout is a grout used to fill weld pockets, spalls in concrete, and voids between vibrating transportation rails and concrete. Suitable for sealing penetrations through concrete slabs. The Iso-Flex Rail Grout is extended with aggregate to increase the load bearing properties. Extending 3.25 gallons of grout with 1.7 gallons of aggregate will yield approximately 5 gallons of grout (0.67 cu ft).

PACKAGING

Iso-Flex Rail Grout is available as a 5 gallon unit. (Consists of Part A, Part B and pre-weighed aggregate).

STANDARD COLORS

Black and Concrete Gray

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

Iso-Flex® Rail Grout Technical Data Sheet

Property	Type	Test Method	Test Results
VOC		Calculated	60 g/l
Viscosity		Brookfield RVF No. 4 @ 20 RPM	4,000 - 6,000 cps
Weight/Gallon		—	8.4 lbs.
Flash Point		Cleveland CC	145o F
Work Life		—	40 mins
Tack Free Time		—	2 1/2 hours
Cure Time		—	16 hours
Hardness	Type I	ASTM D2240	80
Shore A	Type II	ASTM D2240	65
Tensile	Type I Type II	ASTM D412 ASTM D412	1000 psi, min
Elongation	Type I Type II	ASTM D412 ASTM D412	1,000 %, min
Tear Strength	Type I Type II	ASTM D1004 ASTM D1004	300 psi, min
Adhesion to Concrete Steel		ASTM D429 ASTM D429 (C)	350 psi, min 320 psi
Weathering		ASTM G53	No Change, 2,000 hrs.
Water Absorption		21 days Immersion	<1% by weight
Volume Resistivity (Grout), 75°F, 50%RH		ASTM D257	3.4 x 10 ¹² ohm-cm
After 7 days in 3% NaCl		ASTM D257	3.3 x 10 ¹² ohm-cm
Surface Resistivity (Grout)		ASTM D257	>1x10 ⁹ M cm ²
Dielectric Strength (Grout)		ASTM D149	1000 volts/mil
Dynamic Deflection 25% (Grout)		ASTM D5992	No Failure
Compression Modulus @ 250 psi		ASTM D575	6%
Compression Set, 22 hr. @ 158°F. Incremental Set over 3 cycles		ASTM D395 Method B	0.60%

Chemical Resistance		
Solution	% Wt Change	% Vol Change
Test Method - ASTM D471 @ 75°F for 7 days		
Water	<0.5	<0.1
10% NaCl	<0.5	<0.1
10% CaCl ₂	<0.2	<0.1
5% H ₂ SO ₄	<1.2	<0.8
5% NaOH	<0.6	<0.5
ASTM Oil No. 1	<1.5	<1.0
ASTM Oil No. 3	<2.3	<1.9
ASTM Fuel A	<2.7	<2.8

INSTALLATION

1. Surfaces to receive the Iso-Flex Rail Grout must be clean, dry and sound.
2. With a Jiffy paddle, mix Parts A and B of Iso-Flex Rail Grout (3.25 gallons) with supplied aggregate (1.7 gallons) in the bucket provided
3. Pour in desired areas.

In some cases, priming may be required.

Contact representative for project specific recommendations.

PRECAUTIONS

Use Iso-Flex Rail Grout with adequate ventilation and personal protection. Refer to Material Safety Data Sheets that accompany each product shipment

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