

**Solving Today's Problems
with Tomorrow's Technology**



ISO Side
RESIN Side

HYDRALOK SLR-3 (Side A)
HYDRALOK SLR-3 (Side B)

PRODUCT INFORMATION

PRODUCT DESCRIPTION

HYDRALOK CRACK & JOINT FILLER –SLR-3 exhibits the superior performance and durability qualities necessary for a high-performance crack and joint filler. It has excellent adhesion to a variety of substrates such as concrete, brick, stone, wood, metal, and more. This product provides a high degree of water-resistance, long-term sealing protection, very low vapor transmission rate, excellent flexibility and adhesion, and contains zero VOC's.

PRODUCT CHARACTERISTICS

Finish:	Glossy
Color:	Tile Red, Concrete Green, Medium Gray, Dark Gray, Black, and unpigmented.
Volume Solids:	100%
VOC (calculated):	0
Mix Ratio:	1 ISO: 1 RESIN

Theoretical Yield when used as a Crack Filler:

Size of Caulk Tube	ml	50	400	600	1500
	cu. in.	3.05	24.41	36.61	91.54
Crack Depth (inches)	Crack Width (inches)	Coverage in linear inches	Coverage in linear inches	Coverage in linear inches	Coverage in linear inches
1/8	1/8	195.28	1562.20	2343.31	5858.27
1/4	1/4	48.82	390.55	585.83	1464.57
1/2	1/2	12.20	97.64	146.46	366.14
3/4	3/4	5.42	43.39	65.09	162.73
1	1	3.05	24.41	36.61	91.54

Curing Properties:

dependent upon temperature & humidity

Gel Time:	3 minutes
Return to Service:	2 – 3 hours (dependent upon use)
Shelf Life:	6 months from shipping date (unopened @ 25°C)
Flash Point:	ISO - 400°F (204°C) (PMCC, ASTM 093) RESIN - 325°F (163°C) (Closed Cup)
Viscosity :	ISO – 880 @ 25°C, RESIN – 465 @ 25°C

RECOMMENDED USES (Examples listed)

- Basins & Reservoirs
- Cold Storage Areas
- Concrete Decks
- Concrete Restoration
- Control Joints
- Crack Filler
- Dock Coating
- Electronic Signage
- Equipment Wash-Down Areas
- Expansion Joints
- Fish Hatcheries
- Fish Ponds
- Foundation Coatings
- Garage Floor Coatings
- Laboratory Floors
- Landscape Ponds
- Man-Hole & Sewer Linings
- Metal Roof Bolt Seam Repair Coating
- Parking Structure Coatings
- Parking Structure Expansion Joints
- Pipe Opening Sealer
- Pool Concrete Crack Repairs
- Pool Restoration
- Rubber Roof Joiner/Sealer
- Sidewalk Crack Repair

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ASTM D4541 Concrete – dry/ primed (aqueous epoxy primer)	1120 psi Substrate Failure
Elongation	ASTM D638	800 %
Tensile Strength	ASTM D638	2325 psi
Hardness	ASTM D2240	50
Typical UV Resistance	Not Tested	
Physical Properties		High Modulus

PRODUCT FEATURES

- 100% SOLIDS, AROMATIC, POLYUREA CRACK & JOINT FILLER, FORMULATED TO EXHIBIT LONG-TERM PROTECTION WITH A HIGH DEGREE OF WATER, SOLVENT, CHEMICAL, AND IMPACT RESISTANCE.



PRODUCT INFORMATION

RECOMMENDED SYSTEMS

Crack & joint filler recommended for indoor applications

WARRANTY

LIMITED WARRANTY: This product is warranted to be of good quality when used according to the manufacturer's directions. It is not warranted for any other use or purpose. If proved to be defective, liability is limited to replacement of defective material, or refund of the purchase price of the material, at the option of Creative Material Technologies, Ltd. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturer's or its dealer's responsibility. There are no other warranties, either expressed or implied. Creative Material Technologies, Ltd. will not be liable for any consequential, incidental, or special damages arising directly or indirectly from the use of this product.

DISCLAIMER

While every attempt has been made to supply information as accurately as possible, CMT does not guarantee the accuracy of this information nor the suitability of this product for any purpose.

SURFACE PREPARATION

Any oils, fats, greases, and/or other contaminants must be removed prior to application. Make sure substrate is free of all loose materials, dust, or debris. Substrate must be thoroughly dry. Be sure substrate is above the minimum application temperature requirements, as listed on Product Specifications and will remain so for the extent of HYDRALOK CRACK & JOINT FILLER's cure time. If new masonry surfaces, be sure substrate is thoroughly cured before applying HYDRALOK CRACK & JOINT FILLER. If asphaltic surfaces, be sure there are no free oils.

TINTING

Product is pre-tinted. Do not tint.

APPLICATION CONDITIONS

Air and surface: -20°F (-29°C) *minimum*, 140°F (60°C) *maximum*

ORDERING INFORMATION

Packaging:

Drums:	Drum Sets (52 gal) 1 ISO 1 RESIN
Pails:	Pail Sets (5 gal) 1 ISO 1 RESIN
Case:	750 x 750 cartridges
	300 x 300 cartridges
	80ml x 80ml

SAFETY PRECAUTIONS

WARNING! Skin and eye irritant. May cause skin sensitization. **FIRST AID:** Eyes – Flush with water for 15 minutes and call physician. Skin – Wash thoroughly with soap and water. Ingestion – Do not induce vomiting. Call Physician immediately. Use in well ventilated area. **KEEP OUT OF REACH OF CHILDREN.** Refer to the MSDS sheet before use.

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APPLICATION BULLETIN

SURFACE PREPARATIONS

The surfaces of the joint and/or crack substrate to be filled need to be clean, dry, and free of any surface contamination that would interfere with the HYDRALOK SLR-3 "wetting out" the surface and achieving appropriate adhesion to the structural substrate. Appropriate degreasers and cleaning agents may be used but must be thoroughly washed off the surfaces to which the SLR-3 is to adhere. Power washing and/or mechanical abrasion is also acceptable to clean and provide a 3-5 mil (76-127 microns) anchor profile provided that the joint/crack interior surface condition is returned to a clean and dry state. If the surfaces cannot be returned to a dry condition, a penetrating moisture barrier primer that is hydroxyl functional, like DYNA-PRIME N-23 or equivalent, should be used prior to the SLR-3 application. Follow Manufacturer's Application Instructions for using the primer. Avoid acrylic caulks or any compound that contains silicone. Be sure to install the SLR-3 after danger of exposure to moisture in the joint/crack is passed but prior to a full cure of the primer. Crack application tools that enable a thorough coverage of the interior joint/crack surfaces should be used to obtain complete primer coverage. Expanded foam backing rod may be used for very deep joints and cracks. It is recommended that all very deep joint/crack "voids" behind the backer rod be volumetrically filled with a dimensionally stable filler so as to prevent the formation of water pockets below the crack or joint that can cause structural stress to the joint and surrounding substrate.

All cracks, joints, and seams should be filled with a high elastomeric polyurea prior to coating which will enable crack/joint movement without destabilizing the crack/joint itself. If movement in the joint is expected a two inch overlay is recommended on both sides of the joint/crack that is then tied into a termination line that penetrates the surface a minimum of 3/8 " (approx 9 mm). Again, avoid acrylic caulks or any compound containing silicone since these do not typically bond well to polyurea and other hydroxyl functional technologies.

Iron & Steel (immersion service)

Remove all oil and grease from surface by "Solvent" Cleaning per SSPC-SP1, using DYNA-CLEAN™ W-31 or equivalent. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Mechanically abrade to achieve a 5-7 mil (127-178 microns) anchor profile. Remove all weld splatter and round all sharp edges. Prime any bare steel the same day as it is cleaned or before flash rusting occurs. If near white metal abrasion standard is not possible, contact Manufacturer for possible products to chemically convert the rust.

Iron & Steel (atmospheric service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1, using DYNA-CLEAN™ W-31 or equivalent. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Mechanically abrade to achieve a 3-5 mil (76-127 microns) anchor profile. Prime any bare steel the same day as it is cleaned or before flash rusting occurs. If near white metal abrasion standard is not possible, contact Manufacturer for possible products to chemically convert the rust.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 3-5. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with DYNA-PUR™ Patch 'n Go 8010 or HYDRALOK™ SLR-2 or SLR-3.

Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2, CSP 3-5

APPLICATION CONDITIONS

Air and surface: -20°F (-29°C) *minimum*, 140°F (60°C) *maximum*

APPLICATION EQUIPMENT

- 300ml X 300ml Cartridge Gun (hand or pneumatic)
or
- 750ml X 750ml Cartridge Gun (pneumatic only)

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS 055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted C St 2	C St 2 D St 2	SP 2	-
Power Tool Cleaning	Pitted & Rusted C St 3	C St 3 D St 3	SP 3	-
Pitted & Rusted Cleaning	D St 3	D St 3	SP 3	-

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APPLICATION BULLETIN

APPLICATION PROCEDURES

Mixing Instructions: HYDRALOK SLR-3 Crack Filler is packaged in 300 ml. X 300 ml. and 750 ml. X 750 ml. two-component cartridges designed specifically for use with either manual or pneumatic dual component caulking guns.

Theoretical Yield when used as a Crack Filler:

Size of Caulk Tube	ml	50	400	600	1500
	cu. in.	3.05	24.41	36.61	91.54
Crack Depth (inches)	Crack Width (inches)	Coverage in linear inches	Coverage in linear inches	Coverage in linear inches	Coverage in linear inches
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Curing Properties: dependent upon temperature & humidity

Gel Time: 3 minutes
Return to Service: 2 – 3 hours (dependent upon use)

CLEAN UP INSTRUCTIONS

Cured product may be disposed of without restriction. Clean ISO Side with acetone. Clean RESIN Side with warm, soapy water. Mixed, uncured product may be cleaned up with acetone. Follow manufacturer's instructions when using acetone. Cured product cannot be removed off of substrate without use of mechanical equipment. Uncured product must be disposed of according to local, state, and federal laws.

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PERFORMANCE TIPS

For concrete, always perform Calcium Chloride test as per ASTM F1869.

**Where primers are used, do not fill the profile on concrete or steel with excess primer. Allow the primer to become "tack-free" before coating – usually 2 hours. Surface should not be allowed to get wet between primer coat and base coat. The surface is "tack-free" when the primer does not transfer onto your gloves when you press down on it.

Insert cartridge into caulk gun and hold in upright position. Open tip. Force cartridge tip into ½ inch hold and apply even pressure with hand caulk or trigger pneumatic gun in order to discharge all material. Let material react for 3 minutes. As material reacts with water in the crack and begins to set up, work down the crack line to where water is still coming in, and repeat entire process. If water continues to come out of the ½ inch hole, cut a piece of cheese cloth and soak it in a small amount of HYDRALOK INJECTION GEL. Then using a screwdriver, tap the cheese cloth into the hole until the leak stops.

CHEMICAL RESISTANCE

Immersion at 25°C for 7 days unless otherwise indicated

Acetic Acid 10%	R	Kerosene	R
Acetone	C	Methyl Ethyl Ketone	C
Ammonium Hydroxide 20%	R	Mineral Spirits	R
Antifreeze 50% Ethylene Glycol	R	Motor Oil	R
Battery Acid (Sulfuric at 35%)	N	Sodium Hydroxide 10%	R
Brake Fluid	T	Sulfuric Acid 10% (<u>10 days</u>)	R
Diesel Fuel	R-S	Toluene	C
Gasoline	C	Water (at 25°C)	R
Hydrochloric Acid 10%	R	Water (at 60°C)	R
Isopropyl Alcohol	R	Water at 10ppm Chlorine (conc.)	R

R= Recommended for use
C = Caution (Some swelling, cracking or damage may occur)

N = Not recommended for use
S = Color Staining (No change of physical properties)
T = Testing underway

SAFETY PRECAUTIONS

WARNING! Skin and eye irritant. May cause skin sensitization. **FIRST AID:** Eyes – Flush with water for 15 minutes and call physician. Skin – Wash thoroughly with soap and water. Ingestion – Do not induce vomiting. Call Physician immediately. Use in well ventilated area. **KEEP OUT OF REACH OF CHILDREN.** Refer to the MSDS sheet before use.

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