

Ouray Silver Mines, Inc.  
1900 Main St. Unit 1  
PO Box 564  
Ouray, CO 81427



November 5th, 2021

Colorado Division of Reclamation Mining and Safety  
1313 Sherman Street, Rm 215  
Denver, CO 80203

**Subject: Technical Revision 14 (TR-14) Memo: Change in Inspection Schedule  
DRMS Permit No. M-2012-032  
Revenue Mine, Ouray County, Colorado**

Dear Mr. West,

Ouray Silver Mines, Inc. (OSMI) is formally requesting that the inspection schedule be rearranged, and that Inspection 6 Equipment Installation be performed before Inspection 5 Secondary Containment. Due to supply chain issues, the original epoxy we had identified to coat the concrete floor in the new Reagent Room and other epoxy replacements are unavailable. An alternative concrete sealant, which is resistant to chemicals and is expected to provide a suitable seal to the concrete floor, is being procured. As was specified in TR-14, the condition of the sealant on the concrete floor will be inspected on a regular basis and new sealant will be applied when necessary. Please see attached technical data sheet for the replacement sealant.

Our contractor will continue with equipment placement and the concrete sealant will be applied once it arrives. Areas where the sealant cannot be applied, such as underneath tanks, will be sealed using a caulk that will prevent liquids from entering the area. Attached is a technical sheet for the caulk that the contractor will use.

OSMI appreciates your attention to this matter. If you have any questions, please contact me at (970) 325-9830.

Sincerely,



Poppy Staub  
VP Environment & Government Affairs  
Ouray Silver Mine Inc

Cc: Travis Marshall, DRMS  
Amy Yeldell, DRMS  
Brian Briggs, OSMI



# HI-BUILD ULTRA™ Multi-Purpose Sealer with Urethane

Hi-Build Ultra™ Clear Coat with Urethane is a high-performance, one-component 35% solids acrylic/urethane hybrid coating used over many interior and exterior surfaces.

An ideal top coat for concrete and masonry – as well as all DAICH Coatings stone floor finishes – Hi-Build Ultra produces a tough, non-yellowing barrier that resists abrasion, impact, stains, chemicals and more.

Hi-Build Ultra is a safe, non-toxic, low odor water-based technology excellent for residential, commercial and light industrial floor surfaces.

## Hi-Build Ultra Performance Features

- |                                 |                             |
|---------------------------------|-----------------------------|
| • water / weather resistant     | • salt resistant            |
| • UV resistant                  | • impact resistant          |
| • excellent chemical resistance | • abrasion resistant        |
| • very low odor                 | • mold and mildew resistant |
| • water-based                   | • non-yellowing             |
| • glossy finish                 | • low VOC                   |

## PREPARATION:

Surface must be clean and dry, free from dust, dirt, oils, loose flaking, poorly bonded or glossy paint, glue, surface sealers, efflorescence, etc.

### Concrete Surface Preparation:

Pressure wash the concrete or vigorously scrub the surface with a strong TSP and water solution. Rinse the surface thoroughly and remove wash water with adequate drainage or water-compatible vacuum. Very smooth, new or efflorescent surfaces may need to be acid etched prior to general cleaning (ask a qualified source for full instructions). Remove resulting etching residue thoroughly before coating application. New concrete – allow 30 day cure before coating. New masonry – Cure 48 hours. Allow the surface to dry completely.

### DAICH Decorative Finishes – Surface Preparation:

Surface must be fully cured (at least 24 hours), clean and dry. Remove dirt or loose debris before sealing.

## APPLICATION:

Apply uniformly onto the surface using a 3/8" pile roller. Surface should be dry for 24 hours before applying sealer. Temperature should be at least 50° F during application and for the next 12 hours. Apply in dry conditions in the morning or late afternoon. Do not apply if rain is expected within 24 hours or take precautionary measures to shield area from rain. Wash tools with soap and water when finished. If applying to a Daich Spreadable Stone finish, ensure that the surface beneath is fully cured prior to application of Hi-Build Ultra. Re-apply until desired film-build is achieved - and ONLY when previous coats have dried through (at least 8 hours - longer in damp, humid or cool conditions, and/or where there is little air circulation). On very smooth surfaces, scuff previous coatings lightly before application. Do not step on surface while it is tacky. Rope off the sealed area to allow curing and discourage normal foot traffic for 24 hours.

**COVERAGE:** Up to 400 sq.ft. per gallon. Coverage varies with surface roughness and application thickness. Two coats recommended.

**CONTAINER SIZES:** Hi-Build Ultra Clear Coat Sealer is available in 1-gallon and 5-gallon containers.

**STORAGE:** May be stored in its original unopened container for two years.

## PRECAUTIONS:

Avoid contact with eyes and skin, flood eyes repeatedly with potable water for 15 minutes. Wash hands thoroughly after handling. Do not take internally. KEEP OUT OF REACH OF CHILDREN. Keep container closed. Water-based product. Dispose of unused material as prescribed by local laws.



**PRODUCT DATA SHEET**

## PRODUCT DATA SHEET

Edition 12.2017/v1  
CSC Master Format™ 07 92 13  
ELASTOMERIC JOINT SEALANTS

# Sika® Duoflex® NS/SL

## TWO-COMPONENT, POLYSULPHIDE SEALANT

<b>Description</b>	<p>Sika® Duoflex® is a two-component, premium-quality polysulphide sealant, available in both non-sag and self-levelling versions.</p> <p><b>Sika® Duoflex® NS:</b> A non-sag sealant specifically designed for vertical and overhead applications.</p> <p><b>Sika® Duoflex® SL:</b> A self-levelling sealant ideally suited for quick application to horizontal surfaces.</p>
<b>Where to Use</b>	<p>Sika® Duoflex® is suitable for either exterior or interior use in both static and dynamic joints.</p> <p><b>Sika® Duoflex® NS</b> is suitable for sealing:</p> <ul style="list-style-type: none"> <li>▪ Joints in precast concrete.</li> <li>▪ Joints in glass and metal curtain wall construction.</li> <li>▪ Expansion and control joints in concrete and masonry walls.</li> <li>▪ Joints in metal siding.</li> <li>▪ Perimeters of aluminum window frames and metal panels.</li> <li>▪ Gas stations.</li> </ul> <p><b>Sika® Duoflex® SL</b> is suitable for sealing:</p> <ul style="list-style-type: none"> <li>▪ Expansion and control joints in concrete floors.</li> <li>▪ Joints in podium deck structures.</li> <li>▪ Expansion joints in tile and brick flooring.</li> <li>▪ Gas stations.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Tough, elastic, rubber-like seal.</li> <li>▪ Remains flexible with expansion and contraction of building component without adhesive or cohesive failure, under suitable design conditions.</li> <li>▪ Stays resilient within a wide temperature range.</li> <li>▪ Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis.</li> <li>▪ Tenacious adhesion to concrete, metal, wood, glass, stone, ceramic and masonry surfaces in any combination, typically without the need for priming.</li> <li>▪ Effective under constant immersion or saturated conditions, when suitably primed.</li> <li>▪ USDA acceptance (NS grade only).</li> </ul>

### Technical Data

<b>Packaging</b>	5.7 L unit (1.5 US gal.)
<b>Colour</b>	Grey
<b>Colour Stability</b>	Very good
<b>Yield</b>	Linear Meter of Sealant per Liter
<b>Width</b>	
<b>mm (in)</b>	<b>6 (¼)</b> <b>13 (½)</b> <b>19 (¾)</b> <b>25 (1)</b> <b>32 (1¼)</b> <b>38 (1½)</b>
<b>6 (¼)</b>	24.8
<b>13 (½)</b>	12.4
<b>19 (¾)</b>	8.3
<b>25 (1)</b>	6.2
<b>32 (1¼)</b>	5.0
<b>38 (1½)</b>	4.1
<b>Shelf Life</b>	1 year in original, unopened packaging. Store dry between 4 and 35 °C (39 and 95 °F).
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>	
<b>Pot Life</b>	1 hr
<b>Tack Free</b>	6 hrs
<b>Full Cure</b>	7 days
<b>Testing Standards</b>	ASTM C920, Class 25, CGSB 19.24
<b>Application Temperature</b>	4 to 38 °C (39 to 100 °F), ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.
<b>Service Range</b>	-40 to 77 °C (-40 to 170 °F)
<b>Movement Capabilities</b>	± 25 %
<b>Elongation at Break ASTM D412</b>	500 % - 550 %
<b>Shore A Hardness ASTM D2240</b>	25 - 30
<b>Abrasion and Puncture Resistance</b>	Excellent
<b>Tensile Strength ASTM D412</b>	1.03 - 1.38 MPa (150 - 200 psi)

*Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.*



<b>HOW TO USE</b>	
<b>Joint Design</b>	Proper joint design for moving joints is 2:1 width to depth ratio, with a recommended 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. For non-moving joints, the width to depth ratio can vary.
<b>Surface Preparation</b>	All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, grease, paints, coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesion. Ideally this should be accomplished by mechanical means. Bond breaker tape or backer rod must be used in bottom of joint to prevent bond.
<b>Priming</b>	For maximum adhesion, including in submerged or immersed applications, the use of Sika® Duoflex® Primer-5050 is necessary (Consult your Sika Canada Technical Sales Representative). A uniform glossy sheen after priming indicates adequate primer. Some surfaces, such as porous concrete, may require two coats. Primer must be tack-free before applying sealant. Sealant must be applied same day as primer. Primed areas left overnight should be re-primed.
<b>Mixing</b>	Add total contents of curing agent (B) into base (A). Mix using a low-speed drill (100 - 300 rpm) and approved mixing paddle. Minimum mixing time is 5 minutes.  Mix until all streaks of curing agent disappear. Scrape down sides of container and excess material from mixing paddle periodically during mixing operation to ensure total dispersion of curing agent into base. Avoid entrapping air in material during the mixing operation. Mixed material must be used within the work life parameters given. Do not attempt to thin or use material that has started to harden. The base and curing components are formulated, manufactured and shipped to be used together. Do not use the curing agent (B) from NS with the base (A) for SL and vice versa.
<b>Application</b>	Recommended application temperatures 4 to 38 °C (39 to 100 °F). Pre-conditioning units to approximately 21 °C (70 °F) is necessary when working at extremes. Move pre-conditioned units to work areas just prior to application.  Apply sealant only to clean, sound, dry, and frost-free substrates. Sika® Duoflex® NS/SL should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place, load directly into bulk gun or use a follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps air. Tool as required.
<b>Clean Up</b>	Clean all tools and equipment with Sika® Urethane Thinner and Cleaner. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
<b>Limitations</b>	Not suitable for: <ul style="list-style-type: none"> <li>▪ Joint movement more than 25 %.</li> <li>▪ Glazing applications.</li> <li>▪ Improperly prepared or contaminated surfaces.</li> <li>▪ Joints involving adhesion to painted surfaces.</li> <li>▪ For optimum adhesion in conditions, that include but are not exclusive to submersion or immersion, Sika® Duoflex® Primer-5050 must be used. The use of other priming materials is not permitted unless following indicative testing and under written approval from Sika Canada Inc.</li> </ul>
<b>Health and Safety Information</b>	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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Certified ISO 14001 (CERT-0102791)