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

November 18th, 2021

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

NOV 22 2021

OURAY SILVER MINES

RECEIVED

DIVISION OF RECLAMATION MINING AND SAFETY

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

Dear Mr. West,

Ouray Silver Mines, Inc. (OSMI) is formally requesting to use VerdeFloor SLX2 as an alternative to Fastop SL23. The 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 the attached technical data sheet for the replacement sealant along with email correspondence with the manufacturer stating that VerdeFloor SLX2 is compatible with the reagent chemicals that are used in the mill without the need for additional chemical resistant 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 has been approved by the Division.

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

RE: Fast Top Flooring equivalent



David Keller <davidK@verdia.com> To Todd Jesse; Karl Baum Cc Poppy Staub; Michelle Robbins; Ashlee Briggs

Todd,

Thank you for the chemical exposure for your upcoming project. I do not see an issue with any of the chemicals listed. Of course, appropriate house keeping and washdowns help any chemical from evaporating and increasing in concentration.

We have stock in Denver with our distributor who can provide further service.

Moving forward, can you help me with the following? Size in sqft of project? Timing of project? Who will be preparing concrete and installing the Verdia system?

David Keller Verdia Flooring 11133 I-45 South Ste i Conroe TX 29672 Cell:317-417-2829 Office: 713-999-5090

From: Todd Jesse <<u>tjesse@ouraysilvermines.com</u>> Sent: Wednesday, November 17, 2021 4:53 PM To: Karl Baum <<u>kbaum@ouraysilvermines.com</u>>; David Keller <<u>davidK@verdia.com</u>> Cc: Poppy Staub <<u>pstaub@ouraysilvermines.com</u>>; Michelle Robbins <<u>mrobbins@ouraysilvermines.com</u>>; Ashlee Briggs <<u>abriggs@ouraysilvermines.com</u>> Subject: RE: Fast Top Flooring equivalent

[External Email: Please do not click links or open attachments unless you trust the sender and know the content is safe. If in doubt, contact the IT Help Desk.]

David,

Attached is a table with all of our reagent chemicals. I also attached the sds sheets for them. Let me know if you have any questions.

Thanks, Todd From: Karl Baum <<u>kbaum@ouraysilvermines.com</u>> Sent: Wednesday, November 17, 2021 1:20 PM To: Todd Jesse <<u>tjesse@ouraysilvermines.com</u>>; <u>davidk@verdia.com</u> Cc: Poppy Staub <<u>pstaub@ouraysilvermines.com</u>>; Michelle Robbins <<u>mrobbins@ouraysilvermines.com</u>>; Ashlee Briggs <<u>abriggs@ouraysilvermines.com</u>> Subject: FW: Fast Top Flooring equivalent

David,

This sounds like music. I've cc'd those smarter than I on our regulatory requirements.

Mr. Todd Jesse will be reaching out to you now.

Respectfully,

Karl 949.244.1378

From: David Keller <<u>davidK@verdia.com</u>> Sent: Wednesday, November 17, 2021 1:09 PM To: Karl Baum <<u>kbaum@ouraysilvermines.com</u>> Subject: Fast Top Flooring equivalent

Hello Karl,

I received your inquiry about a need for a flooring product equivalent to Fasttop SL23. Our VerdeFloor SLX2 is an equal to this product and is available if your current product is not available.

Please let me know how I can help with your current and future projects.

Thank you and I look forward to working with you.

David Keller Verdia Flooring 11133 I-45 South Ste i Conroe TX 29672 Cell:317-417-2829 Office: 713-999-5090



VerdeFloor SLX2

Self-Leveling Slurry Polyurethane Concrete

TECHNOLOGY DESCRIPTION

Verdia flooring represents the next generation of industrial and commercial flooring technology. Verdia provides user friendly products with minimal environmental impact. Many of our high performance components are USDA certified as a biobased product and available in environmentally friendly packaging to reduce nonrecyclable waste.

PRODUCT DESCRIPTION

VerdeFloor SLX2 is a Medium-Duty seamless flooring system typically installed at 3/16" finished thickness. VerdeFloor SLX2 is resistant to MVT and withstands moderate thermal shock, impact, abrasion and chemical exposures. VerdeFloor SLX2 offers various surface profiles to meet individual project requirements. VerdeFloor SLX2 is formulated with a natural additive to be resistant to Fungi Growth per the industry standard ASTM G-21.

TYPICAL PROPERTIES AT 70°F

Compressive Strength (ASTM C-579)	8,400 psi
Tensile Strength (ASTM C-307)	1,050 psi
Flexural Strength (ASTM C - 580)	2,700 psi
Bond Strength (ASTM D - 4541)	100% Concrete Failure
Impact Strength, in / 1 b s (ASTM D - 4226)	>160 in-lb.
VOC Content	5 gm/l
Resistance to Fungi Growth (ASTM G-21)	Passes, Rating of 1

The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.

INSTALLATION DATA

Application Temperature, ambient	40-85°F
Application Temperature, material	50-80°F
Shelf Life	6 months
Pot Life, @ 77°F	15 minutes
Traffic, @ 77°F	Light: 12 hours / Full: 24 hours
Fully Cured, @ 77°F	7 days

Refer to VerdeFloor Application Guide for additional installation information

IMPORTANT INFORMATION

- 1. VerdeFloor is not color stable unless UV resistant topcoat is used.
- 2. VerdeFloor flooring should not be installed on wet concrete.
- 3. Floors should be sloped to drain to prevent standing water or chemicals.
- 4. Spills should be removed as soon as possible to prevent a slipping hazard.
- 5. Confirm product performance in specific chemical environment prior to use.
- 6. Prepare substrate according to "Surface Preparation" portion of this document.
- 7. Follow detailed instructions in the "VerdeFloor Application Guide"
- 8. Always use protective clothing consistent with OSHA regulations during use.
- 9. Refer to Safety Data Sheet for detailed safety precautions.
- 10. For industrial/commercial use. Installation by trained personnel only.

TECHNICAL DATA SHEET

BENEFITS

- · Seamless, hygienic finish; no grout joints
- Impact & abrasion resistant surface
- Low odor, fast installation, fast cure
- Thermal shock & chemical resistant
- High temperature resistant 180 F*
 *varies with different topcoat options, see below
- Anti-slip surface, meets ADA recommendations
- · Resistant to moisture vapor transmission (MVT)
- Resistant to fungi growth per ASTM G-21

RECOMMENDED USES

- Commercial kitchens
- Restrooms and locker rooms
- Supermarkets and food prep areas
- Food & beverage facilities
- Laboratories

GENERIC DESCRIPTIN

Polyurethane Concrete

TYPICAL APPLICATION

3/16" Slurry applied broadcasted and top coated

OPTIONAL TOPCOATS

VerdeCoat HPE - High Performance Epoxy VerdeCoat CRE - Chemical Resistant Epoxy VerdeSeal RCU - Rapid Cure UV Resistant Polyurethane VerdeFloor TC - Polyurethane Concrete Coating VerdeFloor UV - UV Resistant PU Concrete Coating VerdeSeal SBA – Solvent Based Polyaspartic

AVAILABLE COLORS

See Verdia Color Chart for Available Colors

PACKAGING AND COVERAGE

Part A and B liquids are packaged in

5 gallon pails and 250 gallon totes

Double Unit Mix:

1 gallon Part A, 1 gallon Part B, 1 SLX2 Filler Bag 1 Powder Pigment

50 sqft/unit @1/8" for a 3/16" finished floor

SURFACE PREPARATION

Concrete: Apply only to properly prepared clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should ideally be cured for a minimum of 14 days to reduce possible shrinkage cracking in the concrete. VerdeFloor can be installed after 7 days or when concrete reaches a minimum 3,500 psi compressive strength which will allow for proper surface preparation, however, early curing movement, shrinkage or cracking that may occur in the concrete will be reflected through the final VerdeFloor flooring.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers including broom finish surface.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3-5 or meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- Moisture vapor transmission should be 12 pounds or less per 1,000 square feet over a 24-hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907.
- All concrete surface irregularities, cracks, expansion joints, control joints and terminations should be properly addressed and prepared prior to application of the flooring. Moving joints and cracks will reflect through the final installed VerdeFloor flooring.

Refer to "VerdeFloor Application Guide" for more details.

INSTALLATION STEPS

IMPORTANT – Follow the detailed application instructions in the "VerdeFloor Application Guide" and the safety instructions listed on the product Safety Data Sheets (SDS) copies available upon request. The following installation summary is for reference only and should not be relied upon as all inclusive. VerdeFloor systems should only be installed by trained persons experienced in polyurethane concrete flooring applications.

- 1. To prevent lifting or delamination, keyways (minimum 5/16" wide x 5/16" deep) must be cut at all terminations, joints, columns, doorways, and drains. See VerdeFloor construction detail drawings.
- 2. Clean sand and dust from prepared concrete where the floor is to be installed.
- 3. Option: Use VerdeFloor CB Cove Base material to install a cove and/or base as required. The cove/base can be installed before or after the installation of the VerdeFloor SL depending on the specification and or the desired result. The VerdeFloor CB can be used to create a simple cant cove as well.
- 4. Pour 1 Gallon Part A into a 5-gallon mixing pail.
- Add 1 Powder Pigment to Part A and mix about 15 seconds using a ½" drill and jiffy-type mixing paddle.
- 6. Add I Gallon Part B and mix another 15 seconds.
- 7. Gradually add all contents of a VerdeFloor SLX2 Filler into the liquid mixture and blend thoroughly until all particles are wetted out, normally about two minutes. DO NOT BLEND AGGRESSIVLY OR INTRODUCE AIR.
- 8. Immediately after mixing (within 3 minutes), spread the mixed VerdeFloor SLX2 onto the floor at the desired thickness, using a cam rake or trowel. Approximately 1/8" for a 3/16" finished floor.
- 9. Lay abutting edges within 10 minutes to ensure a clean edge. A "wet edge" installation is imperative during large placements to avoid lines and ridges in the finished floor.
- Evenly apply to desired thickness while trying to keep cam rake lines to a minimum. Backroll across slurry with spike roller to help settle aggregates and blend cam rake lines.
- 11. Broadcast to rejection specified broadcast media (aggregate or decorative flakes) onto the wet slurry. Do not broadcast onto the wet edge area until settling and backrolling is complete. Continue broadcasting until no wet areas remain.
- 12. After curing (approximately 6-8 hours to withstand foot traffic), remove all excess broadcast media and scrape floor as required.
- 13. Apply specified topcoat to lock system and achieve desired slip resistance.

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Rev 4/20

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