



Request for Proposals (RFP)

Big Hollow Manhole Water Seepage Remediation Project

Bids Due

Tuesday, November 3, 2026

by 3:00 PM

Contact:

Chris Lee, Executive Director
Des Moines County Conservation
11627 Starr's Cave Rd.
Burlington, IA 52601
(319) 753-8260
conservation@dmcounty.com

SUMMARY AND BACKGROUND

Des Moines County Conservation (DMCC) is soliciting proposals from qualified contractors to remediate water seepage occurring at specific manholes within Big Hollow Recreation Area. The purpose of this RFP is to engage contractors capable of sealing the annular space inside the manholes and constructing concrete collars around the exterior of affected manholes as shown in Attachment A. The project includes confined-space work in a sewer environment; therefore, proper entry procedures, permits, and safety protocols must be strictly followed.

PROPOSAL GUIDELINES

- This RFP represents the requirements for an open and competitive process.
- Proposals will be accepted until 3:00 PM CST on November 3, 2026.
- Any proposals received after this date and time will not be considered.
- All proposals must be signed by an authorized representative of the bidding company.
- DMCC reserves the right to not award the contract if bids do not meet expectations or budget.

PROJECT PURPOSE AND DESCRIPTION

The goal of this project is to seal the space between the concrete manhole and the PVC riser to prevent groundwater infiltration. Additionally, a reinforced concrete collar must be installed on the exterior of each manhole to counteract buoyant forces associated with high groundwater conditions. The attached plan (Attachment A) provides engineering details for these tasks. Contractors are HIGHLY encouraged to visit the site prior to submitting a bid.

Completion during the 2026 construction season is preferred if weather conditions allow; however, the required completion date for the project is April 1, 2027.

PROJECT SCOPE

- Clean and prepare interior annular space for sealing.
- Apply appropriate sealant or grout to create watertight interior seal.
- Excavate around manholes as needed to install concrete collar.
- Construct exterior reinforced concrete collar per Attachment A.
- Backfill and restore site to original condition.

- Adhere to all confined-space entry, permitting, and safety requirements.

PROPOSAL REQUIREMENTS

- Cover letter summarizing project understanding and qualifications.
- Detailed cost proposal including materials, labor, and any alternate pricing.
- Projected project timeline including start and completion dates.
- List of relevant experience and references.
- Proof of insurance including liability and workers' compensation.
- Any questions or clarifications regarding Attachment A or project expectations.

EVALUATION CRITERIA

- Completeness and clarity of proposal.
- Experience and qualifications.
- Project cost and feasibility.
- Ability to meet technical specifications.

PROPOSAL SUBMISSION INFORMATION

All proposals must be submitted electronically to conservation@dmcounty.com no later than 3:00 PM on November 3, 2026. Possible award may be made at the Des Moines County Conservation Board meeting on November 4, 2026. For questions, site visits, or additional information, contact:

Chris Lee, Executive Director
11627 Starr's Cave Rd.
Burlington, IA 52601
(319) 572-1564
conservation@dmcounty.com

ATTACHMENTS

Attachment A – Engineering Plan: Big Hollow Manhole Water Seepage Remediation

Procedure assuming no active groundwater

Because you are working in a confined space (6 feet deep) inside a tight 12-inch annular workspace, using self-leveling materials will ensure full coverage without requiring extensive manual tooling at the bottom of the manhole.

Step 1: Prep and Clean the Target Area

- **Clean the Concrete:** Use a wire brush to scrub the interior walls of the 48-inch concrete manhole at the base. Remove all loose dirt, slime, and debris so the new pour can mechanically lock onto a solid mineral surface.
- **Scuff the PVC:** Use heavy-grit sandpaper to thoroughly scuff the exterior base of the 24-inch PVC riser where the new concrete plug will touch it. This removes the slick factory sheen and gives the sealant a textured profile to grab onto.

Step 2: Install an Expandable Waterstop Ring Around the PVC

Because concrete expands and contracts at a different rate than PVC plastic, temperature shifts will eventually create a micro-gap around the riser.

- **Material:** Wrap a continuous ring of a specialized hydrophilic waterstop tape—such as SikaSwell Profile or Swellstop—around the base of the PVC riser.
- **How it works:** Secure it tightly against the plastic. When groundwater eventually rises through the gravel, this rubber profile absorbs the moisture and swells up to double its size, tightly choking off any potential leak paths between the PVC and the concrete floor.

Step 3: Pour a Self-Leveling Structural Base Plug

Instead of trying to shovel and tool stiff concrete down a 6-foot hole into a 12-inch gap, use a high-flow, self-leveling structural grout.

- **Material:** Use a non-shrink structural grout like SikaGrout-212 or a rapid-setting equivalent mixed to a fluid consistency.
- **Installation:** Pour the grout directly into the 12-inch gap from the surface using a tremie pipe or funnel, filling the bottom to a minimum thickness of 6 inches. A fluid grout will easily flow completely around the circular 24-inch PVC pipe, fill all underlying gravel voids, and consolidate against the 48-inch concrete walls without needing mechanical vibration or hand troweling.

Step 4: Final Top Waterproof Coating

Once the structural grout plug cures (typically 24 hours), apply a secondary layer of protection over the top of the entire assembly.

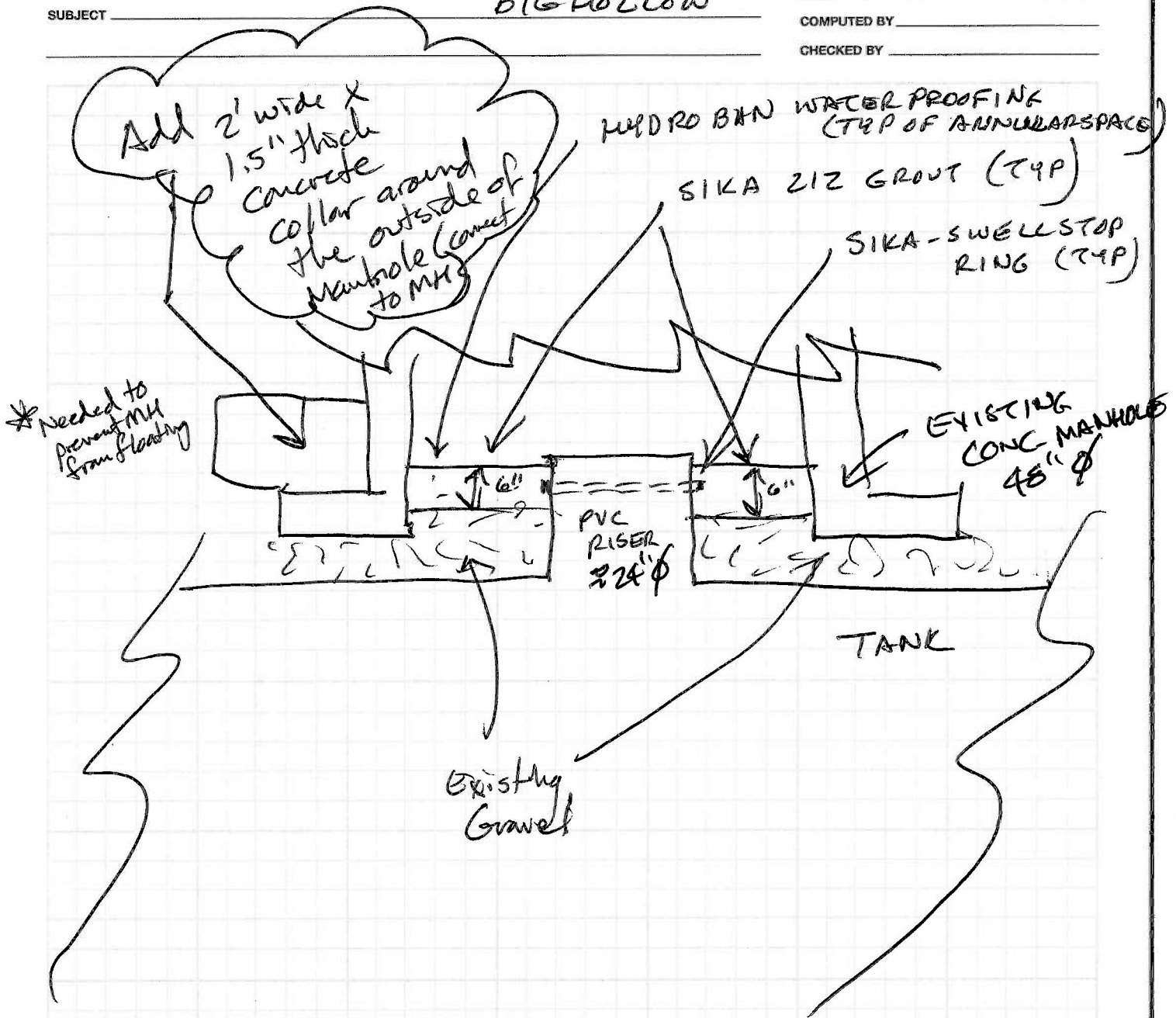
- **Material:** Mix and brush a heavy coating of a specialized polymer-modified cementitious waterproofing slurry (like standard [HYDRO BAN Cementitious Waterproofing](#) or a similar concrete tank liner coating).
- **Application:** Paint this slurry directly over the cold joint where the new grout floor meets the existing 48-inch concrete walls, and brush it up onto the concrete walls a few inches. This adds an extra layer of defense against vapor transmission and seasonal dampness.

Cut Sheets for all of these materials are attached.

By sealing the bottom, it is possible that the manhole could float during the presence of high groundwater. To prevent this, we need to provide a 2' wide x 18" high collar around the outside of the manhole that should be pinned to the precast manhole with #3 bars spaced about 12" apart that extend at least 2" into the existing manhole and 4" into the new concrete collar. This will prevent floating.

SUBJECT _____

BIG HOLLOW



TYPICAL OF 4 MANHOLE RISERS

PRODUCT DATA SHEET

Swellstop

Water Swellable Sealant

PRODUCT DESCRIPTION

Swellstop is a butyl polymer based sealant tape.

USES

Cold joint in foundation slabs or below grade walls

- Precast concrete wall panel systems
- Septic tanks
- Sanitary and storm sewer manholes
- Utility vaults, portable water tanks and box culverts
- Pipes (round, oval, flat-base elliptical and arch types)
- Wet wells

Please note that Swellstop is not an expansion joint material and should not be used as one. Swellstop requires no special handling equipment. It is clean to the touch and does not contain any material that can discolor or irritate the skin.

CHARACTERISTICS / ADVANTAGES

- Swellstop is a water-swellable, waterproofing sealant designed for use on many types of poured-in-place and below grade precast concrete applications.
- On exposure to water it will begin to swell to seal any exposed gaps in concrete joints. Swellstop has excellent adhesion to clean, dry concrete. It is specifically intended for non-moving joints. It features all weather application and is engineered for use under most temperature conditions.
- Swellstop stays flexible in cold weather without shrinking or hardening and does not require heating for application. In hot weather, Swellstop remains pliable and does not become spongy.

PRODUCT INFORMATION

Packaging	Swellstop: 3/4" x 1" X 16'-8" roll (6 rolls or 100' per carton) Swellstop II: 3/8" x 3/4" x 25' roll (6 rolls or 150' per carton) Swellstop SC: 1/2" x 3/4" x 1-1/4" x 20' roll (6 rolls or 120' per carton)	
Appearance / Color	Black Odor: none	(ASTM D-1729)
Shelf Life	2 years when stored in a cool, dark, and dry environment.	
Storage Conditions	Store in a cool, dark, and dry environment.	
Density	Specific Gravity: 1.60 ± 0.05 g/cm ³ Weight per Gallon: 13.3 pounds per gallon	(ASTM D-297)
Diameter		

Change of volume	% Solids 99% after 4 hours @ 212°F	(ASTM C-771)
Swelling	After 3 days water immersion = > 25% by weight After 2 months water immersion = 140-170% by weight	(TP-001)
Ambient Air Temperature	-40°F to 215°F	
Substrate Temperature	5°F to 125°F	

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

Swellstop waterstop should be used in below grade, nonmoving joints only and is not appropriate for expansion joint applications.

Cracking and/or spalling of the concrete can be caused by the expansion pressure of Swellstop waterstop. A minimum 2" of concrete coverage is recommended. Increase this coverage if using lightweight or low strength concrete (< 3,500 PSI compressive strength).

Swellstop waterstop requires the presence of moisture to initiate and maintain expansion. The expansion process begins immediately when Swellstop contacts water.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Joint surfaces must be clean and dry. For best results, apply adhesive primer to the joint surface (especially vertical joints) before applying Swellstop. The primer creates a tacky surface to ensure a firm bond to the concrete.

Swellstop is installed after the form is stripped from the first pour and before the second pour is placed. A

keyway may be formed in the first pour with a slight draft angle at the joint face to accept the Swellstop, this will reduce the risk of the profile shifting during concrete placement. This may increase the chance of Swellstop being exposed to pooling water. However, Swellstop does not need to be located in a keyway. The concrete surface should be smooth, dry, and cured for a minimum of 24 hours prior to Swellstop application.

Brush apply a 2" wide continuous coat of Swellstop Primer Adhesive along the joint and allow it to dry for two hours before applying the Swellstop waterstop. The primer adhesive provides a dust free, tacky surface to improve the adhesion of Swellstop to the concrete.

APPLICATION METHOD / TOOLS

- Swellstop Primer Adhesive and Swellstop waterstop should be applied on the same day.
- Press Swellstop waterstop firmly and continuously in place over and along the primed area. Swellstop can also be mechanically fastened to concrete using concrete nails in vertical or overhead applications. This should be done in addition to using the primer adhesive. Suggested fastener spacing is approximately 12" on center.
- Swellstop adheres to the butt end of the previous concrete pour and should be positioned a minimum of 2-inches from the exterior joint surface. Concrete cut nails and/or adhesive must be used to secure Swellstop in place to prevent displacement during the pour.
- Swellstop may also be installed in a cast-in-place recess at the exterior side of the joint. Precautions must be taken to protect the product from hydration prior to backfilling in this situation. Backfill must be compacted to 85% modified proctor minimum adjacent to the joint. The recess at the exterior of the joint should match the dimension of the Swellstop.
- Swellstop waterstop should be spliced by butting the ends together with no separation or air pockets. Do not overlap the ends of the waterstop. It is not necessary to miter cut the Swellstop at these intersections. The pliable nature of Swellstop permits it to be bent around corners eliminating a 90° splice if desired. Place in maximum practical lengths to minimize splicing.
- Protect waterstop from moisture, dirt, oil, and sunlight during the progress of the work. Do not remove

separation paper from Swellstop waterstop until just prior to the second concrete pour. Inspect Swellstop for premature swell, discontinuity, and debris contamination immediately prior to the second concrete pour. If swelling and/or damage has occurred, remove and replace the material with new.

- Place and thoroughly vibrate concrete, taking care not to disturb or displace the waterstop. Do not allow vibrator to contact the Swellstop.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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Product Data Sheet
Swellstop
October 2023, Version 01.04
020703300200000015

BY OTHERS.

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Swellstop-en-US-(10-2023)-1-4.pdf



SWELLSTOP INSTALLATION

Greenstreak



TOP INTRODUCTION

SWELLSTOP is a swellable strip applied waterstop used to seal below grade, non-moving concrete joints. Comprised of bentonite clay and butyl rubber, the waterstop expands up to three (3) times its original volume when in contact with water. This expansion creates a long lasting compression seal. SWELLSTOP does not require split formwork, making the installation efficient and simple. In addition to its installation and sealing advantages, SWELLSTOP is conveniently packaged six (6) rolls per carton. The 3/4" x 1" profile is provided on 16'-8" rolls weighing less than 7 pounds each.

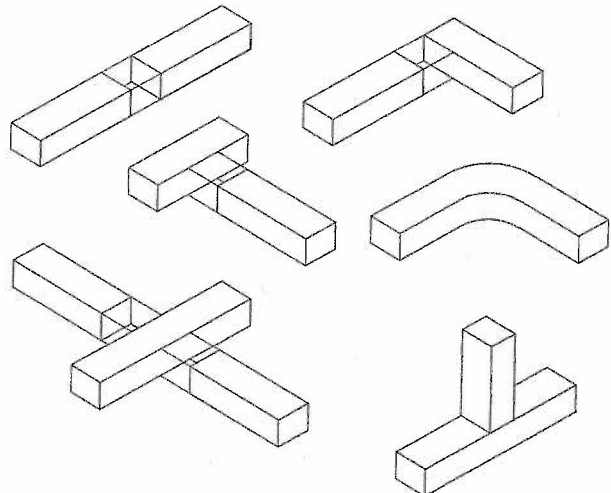
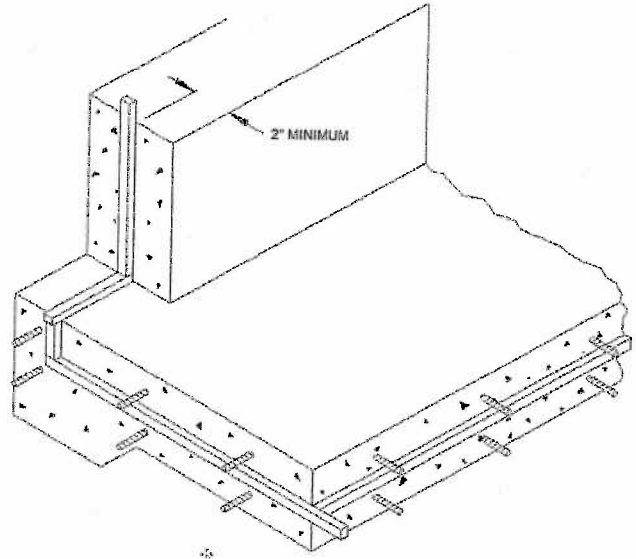
PLACEMENT REQUIREMENTS

SWELLSTOP is installed after the form is stripped from the first pour and before the second pour is made. Therefore, splitting of the form is not required. A keyway may be formed with a slight draft angle at the joint face to accept the SWELLSTOP. Installing SWELLSTOP in a formed keyway will reduce the risk of the profile shifting during the placement of the concrete but may increase the chance of SWELLSTOP being exposed to pooling water.

The expansion process begins immediately when SWELLSTOP contacts water. Therefore installation of SWELLSTOP should be made just prior to the second placement of concrete. This will reduce the chance for premature expansion of SWELLSTOP due to moisture exposure. SWELLSTOP should be protected from water exposure where construction practice dictates a delay between installation and concrete placement..

SPLICING

SWELLSTOP should be spliced by butting the ends of the waterstop together to ensure no separation and no air pockets. Do not overlap the ends of the waterstop. 90° corners, crosses, and T's can be accomplished in a similar manner. It is not necessary to miter cut the SWELLSTOP at these intersections. The pliable nature of SWELLSTOP permits it to be bent around corners eliminating a 90° splice if desired. Place in maximum practical lengths to minimize splicing.



SWELLSTOP - INSTALLATION

Greenstreak



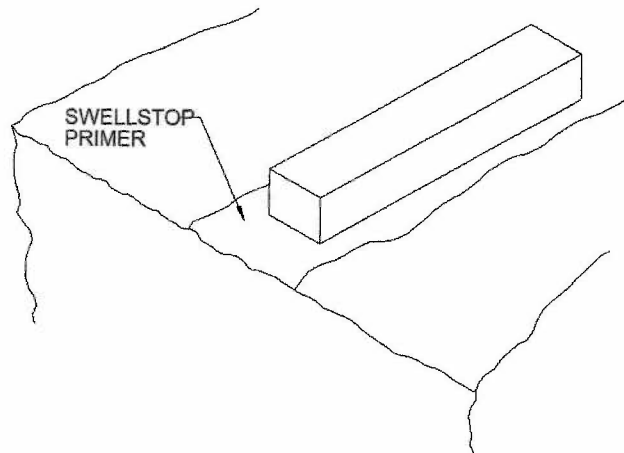
BUILDING TRUST

BONDING TO CONCRETE

Remove all dust, oil, laitance, etc... from concrete surface prior to adhering SWELLSTOP. Concrete surface should be smooth, even and dry, and cured for a minimum 24 hours prior to application of SWELLSTOP.

Brush one coat of SWELLSTOP PRIMER ADHESIVE, or alternatively SWELLSTOP WB PRIMER ADHESIVE (water based) two (2) inches wide continuously along the joint. Allow the primer adhesive to dry for two (2) hours prior to application of the SWELLSTOP. The primer adhesive provides a dust free, tacky surface to improve the adhesion of SWELLSTOP to the concrete. Press waterstop firmly and continuously in place over primed area.

SWELLSTOP can be mechanically fastened to concrete using concrete nails in vertical or overhead applications. This should be done in addition to using the primer adhesive. Suggested fastener spacing is approximately 12" on center



IMPORTANT PRECAUTIONS

SWELLSTOP should be used in non-moving joints only. Movement in the joint will diminish the seal and compromise its effectiveness. SWELLSTOP is not appropriate for expansion joint applications. SWELLSTOP should be applied the same day as the primer adhesive is applied. Do not remove separation paper from SWELLSTOP until just prior to 2nd pour concrete. Store SWELLSTOP in a cool, dark, and dry environment.

Sika Corporation - US
201 Polito Avenue
Lyndhurst, NJ 07071
United States
Usa.Sika.com

For More Information Contact
Sika - St. Louis Sales Office
3400 Tree Court Industrial Blvd.
63122, St. Louis, MO
United States
www.USA.Sika.com
Phone: 1-800-325-9504
Fax: 800-551-5145

PRODUCT DATA SHEET

SikaGrout®-212

General Purpose cementitious grout

PRODUCT DESCRIPTION

SikaGrout®-212 is a one-component, ready to mix, free flowing, non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism.

USES

- General purpose grouting
- Machine and column base plates
- Anchor rods, bearing plates
- Ram in place as a dry pack
- Trowel-apply as a medium flow
- Pour or pump as high flow
- Bedding joints in pre-cast concrete sections
- Filling cavities, voids, gaps and recesses
- On grade, above and below grade
- Indoors and out

CHARACTERISTICS / ADVANTAGES

- Easy to use (ready to mix powder)
- Shrinkage compensated properties in both the plastic and hardened states
- Multiple fluidity with a single component
- Good bond to concrete
- Non-metallic, will not stain or rust
- Contains no chloride
- Blend of shrinkage-reducing and plasticizing/water-reducing agents
- Low heat build-up
- Excellent for pumping: does not segregate, even at high flow. No build-up on equipment hopper
- Superior freeze/thaw resistance
- Resistant to oil and water

APPROVALS / STANDARDS

- Meets ASTM C-1107 (Grade C)
- Shows positive expansion when tested in accordance with ASTM C-827
- SikaGrout®-212 is USDA certifiable

PRODUCT INFORMATION

Chemical Base	Cement, selected fillers and aggregates, special additives
Packaging	50 lb (22.7 kg) bag
Appearance / Color	Gray powder
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage Conditions	Store dry at 40–95 °F (4–35 °C) Protect from moisture. If damp, discard material

TECHNICAL INFORMATION

Compressive Strength

	Plastic	Flowable	Fluid	(ASTM C-942) 73 °F (23 °C) 50 % R.H
1 day	4,500 psi (31 MPa)	3,500 psi (24.1 MPa)	2,700 psi (18.6 MPa)	
7 days	6,100 psi (42 MPa)	5,700 psi (39.3 MPa)	5,500 psi (37.9 MPa)	
28 days	7,500 psi (51.7 MPa)	6,200 psi (42.7 MPa)	5,800 psi (40 MPa)	

Flexural Strength

28 days	1,400 psi (9.6 MPa)	1,200 psi (8.2 MPa)	1,000 psi (6.8 MPa)	(ASTM C-293) 73 °F (23 °C) 50 % R.H
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Splitting Tensile Strength

28 days	600 psi (4.1 MPa)	575 psi (3.9 MPa)	500 psi (3.4 MPa)	(ASTM C-496) 73 °F (23 °C) 50 % R.H
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Tensile Adhesion Strength

28 days	2,000 psi (13.7 MPa)	1,900 psi (13.1 MPa)	1,900 psi (13.1 MPa)	(ASTM C-882 modified) 73 °F (23 °C) 50 % R.H
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Expansion

28 days	+0.021 %	+0.056 %	+0.027 %	(ASTM C-1090) 73 °F (23 °C) 50 % R.H.
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APPLICATION INFORMATION

Mixing Ratio

Plastic	Flowable	Fluid
6 pt	6.5 pt	8.5 pt

Coverage

0.44 ft³ (0.01 m³) at fluid consistency
(Coverage figures do not include allowance for surface profile and porosity or material waste)

Layer Thickness

Min.	Max.
1/2" (12.7 mm)	4" (101.6 mm)

Thicker applications can be achieved. Contact Sika® Technical Services Department for further information.

Flowability

Plastic ¹	Flowable ¹	Fluid ²	(ASTM C-1437 ¹ ASTM C-939 ²)
100–124 %	124–145 %	20–40 sec	

Product Temperature

65–75 °F (18–24 °C)

Ambient Air Temperature

> 45 °F (7 °C)

Substrate Temperature

> 45 °F (7 °C)

Pot Life

~15 minutes

As the temperature will affect the pot life, application temperature:

- Above 73 °F (23 °C) will reduce the pot life and flow
- Below 73 °F (23 °C) will extend the pot life and flow

Set Time

	Plastic	Flowable	Fluid	(ASTM C-266) 73 °F (23 °C) 50 % R.H
Initial	3.5–4.5 h	4.0–5.0 h	4.5–6.5 h	
Final	4.5–5.5 h	5.5–6.5 h	6.0–8.0 h	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means.
- Anchor bolts to be grouted must be de-greased with suitable solvent.
- Concrete must be sound and roughened to a CSP 4 or higher to promote mechanical adhesion.
- Prior to pouring, surface should be brought to a Saturated Surface Dry (SSD) condition.
- Steel should be cleaned and prepared thoroughly by blastcleaning to a white metal finish.
- Follow standard industry and Sika® guidelines for use as an anchoring epoxy.
- Where grout-tight form is difficult to achieve, use SikaGrout®-212 in dry pack consistency.

FORMING

- For pourable grout, construct forms to retain grout without leakage.
- Should be lined or coated with bond-breaker for easy removal.
- Should be sufficiently high to accommodate head of grout.

MIXING

- Pour the water in the recommended proportion into a suitable mixing container.
- While mixing slowly, add the powder to the water.
- Mix thoroughly for 3 minutes with low speed (< 500 rpm) hand drill mixer to avoid entraining too much air and until homogenous with no lumps.

EXTENSION WITH AGGREGATES

- For deeper applications (plastic and flowable consistency only), 25 lbs. of 3/8" (9.5 mm) coarse aggregate can be added.
- The aggregate must be non-reactive (reference ASTM C-1260, C-227 and C-289), clean, well graded, saturated surface dry, have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2.
- Variances in aggregate may result in different strengths.
- Add pea gravel after the water and SikaGrout®-212.

APPLICATION

- Within 15 minutes after mixing, place grout into forms in normal manner to avoid air entrapment.
- Vibrate, pump, or ram grout as necessary to achieve flow or compaction. SikaGrout®-212 must be confined in either the horizontal or vertical direction leaving minimum exposed surface.
- SikaGrout®-212 is an excellent grout for pumping, even at high flow.
- For pump recommendations, contact Technical

Service.

- After grout has achieved final set, remove forms, trim or shape exposed grout shoulders to designed profile.

CURING TREATMENT

Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

LIMITATIONS

- Not to be used as an overlay in unconfined spaces
- Not to be used as a patch repair
- Avoid application in direct sun and/or strong wind
- Apply only to sound, prepared substrate
- Do not add additional water after application as this may cause cracking
- Protect freshly applied material from freezing and frost
- Keep exposed surfaces to a minimum
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/L

(EPA Method 24)

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED

Product Data Sheet

SikaGrout®-212

August 2018, Version 01.02

020201010010000002



- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



Product Data Sheet
SikaGrout®-212
August 2018, Version 01.02
020201010010000002

SikaGrout-212-en-US-(08-2018)-1-2.pdf

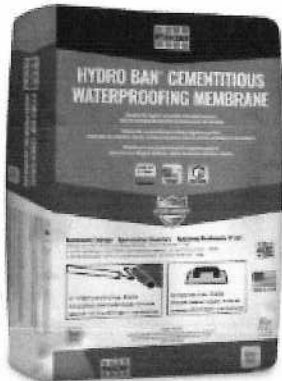




HYDRO BAN® Cementitious Waterproofing Membrane

DS-386.2-0826

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

HYDRO BAN® Cementitious Waterproofing Membrane

2. MANUFACTURER

LATICRETE International, Inc.
1 LATICRETE Park North
Bethany, CT 06524-3423 USA

Telephone: +1.203.393.0010, ext. 1235

Toll Free: 1.800.243.4788, ext. 1235

Fax: +1.203.393.1684

Website: laticrete.com

3. PRODUCT DESCRIPTION

HYDRO BAN Cementitious Waterproofing Membrane is a one component, polymer fortified, cement based waterproofing material that mixes with water. This product can be used on walls and floors in wet areas; swimming pools, water features and fountains, balconies and terraces over unoccupied space.

HYDRO BAN Cementitious Waterproofing Membrane handles negative & positive hydrostatic pressure up to 2 BARS (29 PSI) when applied at 40 Mils (1mm) thick. Flood test within 2 hours. Passes ANSI A118.10 Waterproofing.

Uses

- Interior and exterior
- Swimming pools, fountains and water features
- Spas and hot tubs
- Terraces and balconies over unoccupied spaces

Advantages

- Suitable for use in partially tiled applications such as at waterlines, tiled swimming lanes, tiled swimming targets
- Flood testing in 2 hours at 70°F (21°C) or higher
- Does not require the use of fabric
- 80 mins of Pot Life
- Can be used under pool plasters
- Bonds directly to metal, PVC and ABS plumbing fixtures
- "Extra Heavy Service" rating per TCNA performance levels (RE: ASTM C627 Robinson Floor Test)
- Exceeds ANSI A118.10
- Rapid drying for a faster time to tile
- Install tile, brick and stone directly onto membrane
- GREENGUARD certified, LEED compliant
- Allow new concrete substrates to cure a minimum of 14 days at 70°F before application
- No RH% (of the concrete) limitation for application over concrete. Refer to cautions section for more information on curing

Suitable Substrates

- Concrete
- Concrete and Brick Masonry
- Cement Mortar Bed
- Cement Plaster
- Ceramic Tile and Stone
- Ceramic Tile and Stone
- Cement Terrazzo
- Cement Backer Board
- Gypsum Wallboard (Interior use only, non-wet areas)

Packaging

30 lb./13.6KG Bag

Approximate Coverage

At 40mil (1mm) Thick - 120 ft² (11.2 m²) (Waterproofing Only)

- 20mil (.5mm) per coat - 2 Coats

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for eighteen (18) months. Store between 40°F to 75°F (4° to 24°C). Material should be kept in a cool, dry location prior to application.

Limitations

- DO NOT bond to OSB, particle board, interior glue plywood, luan, Masonite® or hardwood surfaces
- Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement
- Do not use in steam rooms and/or shower floors/pan liners
- Install membrane without voids or interruptions
- Do not use over cracks
- Do not expose to rubber solvents or ketones
- Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations and L/600 for all exterior veneer applications where L=span length

Cautions

- Consult SDS for safety information.
- Allow membrane to cure fully (typically 24 hours at 50°F – 69°F (10°C – 21°C) and 70% RH and 2 hours at 70°F (21°C) or higher and 50%; flood test prior to applying tile or stone
- Protect finished work from traffic until fully cured.
- Use a wet film thickness gauge to check thickness.
- Allow wet mortars to cure for 24 hours at 70°F (21°C) prior to installing HYDRO BAN® Cementitious Waterproofing Membrane.
- Allow HYDRO BAN Cementitious Waterproofing Membrane a minimum 2 hours cure at 70°F (21°C) prior to flood testing in these conditions.
- Application can be made on damp substrates. Sweep away any standing water prior to application.
- Allow new concrete substrates to cure a minimum of 14 days at 70°F before application.

4. TECHNICAL DATA

Applicable Standard

- ANSI A118.10 This product has been certified for Low Chemical Emissions (ULCOM/GG UL2818) under the UL GREENGUARD Certification Program. For Chemical Emissions. For Building Materials, Finishes and Furnishings (UL 2818 Standard) by UL Environment.

Physical Properties

Physical Property	Test Method	HYDRO BAN® Cementitious Waterproofing Membrane
7-day Hydrostatic Test	ANSI A118.10	Pass
7-day Breaking Strength	ANSI A118.10	450 - 500 PSI (3.10 - 3.45 MPa)
7-day Water Immersion	ANSI A118.10	120 - 150 PSI (0.83 - 1.03 MPa)
7-day Shear Bond	ANSI A118.10	320 - 400 PSI (2.21 - 2.76 MPa)
28-day Shear Bond	ANSI A118.10	370 - 450 PSI (2.55 - 3.10 MPa)
Water Vapor Transmission	ASTM E 96-00E1 Procedure B	1.6-1.7 grains/h • ft² (1.1-1.2 g/h • m²)
Water Vapor Permeance	ASTM E 96-00E1 Procedure B	3.9-4 perms 225-235 (ng/Pa • s • m²)
System Performance	ANSI A118.10; ASTM C627; TCA Rating	cycles 1-14 "Extra Heavy"
Tensile Strength for Elongation		25%
Thickness (Dried)		40 mils (1.02 mm)

The data in the above table shall be used by the Project Design Professional to determine suitability, placement, building code conformance and over-all construct appropriateness of a given installation assembly.

Working Properties

HYDRO BAN Cementitious Waterproofing Membrane can be applied using a paint brush, roller or trowel. All areas must have 40 mils (1.02 mm) to ensure waterproofing capabilities.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

Surface Preparation

Surface temperature must be 50 – 90°F (10 – 32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a underlayment. Do not level with asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may

be made on a damp surface.

1. Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thick brick and similar finishes. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations and L/600 for all exterior veneer applications where L=span length.

Mixing:

Place clean, potable water into a clean pail. Use approximately 3.7-4 quarts (3.5-3.8L) per 30 pound bag. Add HYDRO BAN Cementitious Waterproofing Membrane from bag. Mix with drill and paddle at a medium speed for 90 seconds, no slaking needed.

Main Application

For best results, use a 1/4"-1/2" nap roller to apply. A brush or v-notch trowel can also be used as well. Apply two coats at 20 mils generously to achieve a total of 40 mils. Pre-treat any drains or penetrations with a liberal coat of HYDRO BAN Cementitious Waterproofing Membrane. Allow any pre-treated areas to dry to the touch. Apply a liberal coat^{^^} of HYDRO BAN Cementitious Waterproofing Membrane at 20 mils with brush or roller over substrate including pre-treated areas. Once dry to the touch, apply another liberal coat^{^^} of HYDRO BAN Cementitious Waterproofing Membrane at 20 mils over the first coat. Let topcoat dry to the touch, approximately 1-2 hours at 70°F (21°C) and 50% RH. When last coat has dried to the touch, inspect final surface for pinholes, voids, thin spots or other defects. Use additional HYDRO BAN Cementitious Waterproofing Membrane to seal defects.

Movement Joints

Ceramic tile, stone and thin brick installations must include expansion at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in the Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use LATASIL and backer rod.

Note: Apply a liberal coat^{^^} of HYDRO BAN Cementitious Waterproofing Membrane, approximately 8" (200 mm) wide over the areas. Then embed and loop the 6" (150 mm) wide Waterproofing/Anti-Fracture Fabric and allow to bleed through. Then top coat with a second coat^{^^}.

Protection

Provide protection for newly installed membrane against exposure to rain or other water for a minimum of 2 hours at 70°F (21°C) and 50% RH.

Flood Testing

Allow membrane to cure for a minimum of 2 hours before flooding testing at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time. For temperatures 50 – 69°F (10 – 21°C) allow 24 hours after final cure prior to flood testing.

Installing Finishes

Once HYDRO BAN Cementitious Waterproofing Membrane has dried to the touch, ceramic tile, stone or brick may be installed by the thin bed method with a Latex Thin-Set Mortar. Allow HYDRO BAN Cementitious Waterproofing Membrane to cure a minimum of 2 hours before covering with, thick bed mortar, epoxy adhesives, terrazzo or moisture sensitive resilient or wood flooring. Do not use solvent-based adhesives directly on HYDRO BAN.

Drains & Penetrations

Use LATASIL and foam backer rod to seal space between drain or penetration and finish. Do not use a grout or joint filler mortar.

Control Joints

Ceramic tile, stone and brick installations must include sealant-filled joints over any control joints in the substrate. However, the sealant-filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

Cleaning

While wet, HYDRO BAN Cementitious Waterproofing Membrane can be washed from tools with water.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE
Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235
Telephone: +1.203.393.0010, ext. 1235
Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our
website at laticrete.com.

10. FILING SYSTEM

Additional product information is available on our
website at laticrete.com. The following is a list of related
documents:

- DS 230.13: LATICRETE Product Warranty
- DS 025.0: LATICRETE 25 Year System Warranty
(United States and Canada)
- DS 633.0: LATAPOXY 300 Adhesive
- DS 6200.1: LATASIL™
- TDS 157: "Exterior Installation of Tile and Stone Over
Occupied Space."

LATICRETE International, Inc.

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HYDRO BAN® Cementitious Water Proofing Membrane

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Date of Issue: 01/29/2018

Revision Date: 10/08/2018

Version: 1.1

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: HYDRO BAN® Cementitious Water Proofing Membrane

1.2. Intended Use of the Product

Waterproofing Membrane

1.3. Name, Address, and Telephone of the Responsible Party

Company

LATICRETE International

1 Laticrete Park, N

Bethany, CT 06524

T (203)-393-0010

www.laticrete.com

Company

LATICRETE Canada ULC

PO Box 129, Emeryville, Ontario, Canada

N0R-1A0

1.4. Emergency Telephone Number

Emergency Number : For Chemical Emergency Call CHEMTREC day or night

Within USA and Canada: 1.800.424.9300

Mexico: 1.800.681.9531

Outside USA and Canada: 1.703.527.3887 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Skin Irrit. 2 H315

Eye Dam. 1 H318

Skin Sens. 1 H317

Carc. 1A H350

STOT SE 3 H335

STOT RE 1 H372

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)

:



GHS05



GHS07



GHS08

Signal Word (GHS-US/CA)

: Danger

Hazard Statements (GHS-US/CA)

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H350 - May cause cancer (inhalation).

H372 - Causes damage to organs (inhalation) through prolonged or repeated exposure.

Precautionary Statements (GHS-US/CA) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, and eye protection.

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P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Quartz	(CAS-No.) 14808-60-7	39.8 - 79.7	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Limestone	(CAS-No.) 1317-65-3	0.03 - 39.9	Not classified
Cement, portland, chemicals	(CAS-No.) 65997-15-1	25	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Calcium oxide	(CAS-No.) 1305-78-8	0.03 - 24.9	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4	0.03 - 24.9	Not classified
Calcium sulfate hemihydrate	(CAS-No.) 13397-24-5	0.03 - 24.9	Not classified

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Skin sensitization. Causes skin irritation. Causes serious eye damage.

Inhalation: Dust may be harmful or cause irritation. Irritation of the respiratory tract and the other mucous membranes.

Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure (inhalation). Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Sulfur oxides. Metal oxides. Silicon oxides. Formaldehyde. Hydrocarbons.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

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Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Waterproofing Membrane

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate)
British Columbia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable)
Manitoba	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
Nova Scotia	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
Nunavut	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Northwest Territories	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Ontario	OEL TWA (mg/m ³)	0.1 mg/m ³ (designated substances regulation-respirable)
Prince Edward Island	OEL TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
Québec	VEMP (mg/m ³)	0.1 mg/m ³ (respirable dust)
Saskatchewan	OEL TWA (mg/m ³)	0.05 mg/m ³ (respirable fraction)
Yukon	OEL TWA (mg/m ³)	300 particle/mL
Limestone (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL STEL (mg/m ³)	20 mg/m ³ (total dust)
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust) 3 mg/m ³ (respirable fraction)
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³
Québec	VEMP (mg/m ³)	10 mg/m ³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³

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Yukon	OEL TWA (mg/m ³)	30 mppcf 10 mg/m ³
Calcium oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	2 mg/m ³
USA IDLH	US IDLH (mg/m ³)	25 mg/m ³
Alberta	OEL TWA (mg/m ³)	2 mg/m ³
British Columbia	OEL TWA (mg/m ³)	2 mg/m ³
Manitoba	OEL TWA (mg/m ³)	2 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	2 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	2 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	2 mg/m ³
Nunavut	OEL STEL (mg/m ³)	4 mg/m ³
Nunavut	OEL TWA (mg/m ³)	2 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	4 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	2 mg/m ³
Ontario	OEL TWA (mg/m ³)	2 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	2 mg/m ³
Québec	VEMP (mg/m ³)	2 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	4 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	2 mg/m ³
Yukon	OEL STEL (mg/m ³)	4 mg/m ³
Yukon	OEL TWA (mg/m ³)	2 mg/m ³
Cement, portland, chemicals (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA IDLH	US IDLH (mg/m ³)	5000 mg/m ³
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate matter)
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate matter)
Nova Scotia	OEL TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate matter)
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³
Ontario	OEL TWA (mg/m ³)	1 mg/m ³ (containing no Asbestos and <1% Crystalline silica-respirable)
Prince Edward Island	OEL TWA (mg/m ³)	1 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate matter)

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Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m ³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf 10 mg/m ³
Magnesium oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (fume, total particulate)
USA IDLH	US IDLH (mg/m ³)	750 mg/m ³ (fume)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³ (fume)
British Columbia	OEL STEL (mg/m ³)	10 mg/m ³ (respirable dust and fume)
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (fume, inhalable) 3 mg/m ³ (respirable dust and fume)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
Ontario	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Québec	VEMP (mg/m ³)	10 mg/m ³ (fume)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³ (inhalable fraction)
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)
Yukon	OEL STEL (mg/m ³)	10 mg/m ³ (fume)
Yukon	OEL TWA (mg/m ³)	10 mg/m ³ (fume)
Calcium sulfate hemihydrate (13397-24-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Alberta	OEL TWA (mg/m ³)	10 mg/m ³
British Columbia	OEL STEL (mg/m ³)	20 mg/m ³ (total dust)
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust) 3 mg/m ³ (respirable fraction)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Ontario	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m ³ (containing no Asbestos and <1% Crystalline silica-respirable dust)

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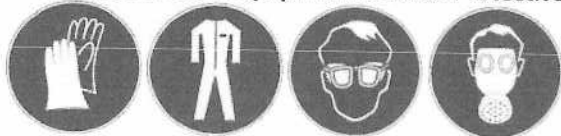
According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³
Yukon	OEL STEL (mg/m ³)	20 mg/m ³
Yukon	OEL TWA (mg/m ³)	30 mppcf 10 mg/m ³
Silica, crystalline (general form)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³ (excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays)

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. In accordance with the National Materials Advisory Board (NMAB) 353-3-80, Classification of Combustible Dusts in Accordance with the National Electrical Code, this material is not an appreciable explosion hazard requiring electrical equipment suitable for Class II locations.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White
Odor	: Not available
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Relative Density	: Not available
Specific Gravity	: Not available
Solubility	: Insoluble
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Explosive Properties	: Product is not explosive

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Ignition sensitivity : 0.01
Explosive sensitivity : 0.04

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
10.6. **Hazardous Decomposition Products:** None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Causes skin irritation.
Eye Damage/Irritation: Causes serious eye damage.
Respiratory or Skin Sensitization: May cause an allergic skin reaction.
Germ Cell Mutagenicity: Not classified
Carcinogenicity: May cause cancer.
Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation. Irritation of the respiratory tract and the other mucous membranes.
Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.
Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.
Chronic Symptoms: May cause cancer by inhalation. Causes damage to organs through prolonged or repeated exposure (inhalation). Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Calcium oxide (1305-78-8)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2500 mg/kg
Magnesium oxide (MgO) (1309-48-4)	
LD50 Oral Rat	3870 mg/kg
Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Silica, crystalline (general form)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Calcium oxide (1305-78-8)

LC50 Fish 1 50.6 mg/l

12.2. Persistence and Degradability

LATICRETE® Cementitious Water Proofing Membrane

Persistence and Degradability Not established.

12.3. Bioaccumulative Potential

HYDRO BAN® Cementitious Water Proofing Membrane

Bioaccumulative Potential Not established.

Calcium oxide (1305-78-8)

BCF Fish 1 (no bioaccumulation)

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

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SARA Section 311/312 Hazard Classes

Health hazard - Skin corrosion or Irritation
Health hazard - Serious eye damage or eye irritation
Health hazard - Carcinogenicity
Health hazard - Specific target organ toxicity (single or repeated exposure)

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (1305-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, portland, chemicals (65997-15-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium oxide (MgO) (1309-48-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State Regulations

Quartz (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

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Silica, crystalline (general form)	
U.S. - California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of California to cause cancer.
Quartz (14808-60-7)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
Limestone (1317-65-3)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
Calcium oxide (1305-78-8)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
Cement, portland, chemicals (65997-15-1)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
Magnesium oxide (MgO) (1309-48-4)	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	
Calcium sulfate hemihydrate (13397-24-5)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

15.3. Canadian Regulations

Quartz (14808-60-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Limestone (1317-65-3)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
Calcium oxide (1305-78-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Cement, portland, chemicals (65997-15-1)	
Listed on the Canadian DSL (Domestic Substances List)	
Magnesium oxide (MgO) (1309-48-4)	
Listed on the Canadian DSL (Domestic Substances List)	
Calcium sulfate hemihydrate (13397-24-5)	
Listed on the Canadian DSL (Domestic Substances List)	

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 10/08/2018

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2

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Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)