



SDS/User Guide





### Vital Coat

# X-440 RTU Concrete Masonry Sealer Technical Data Sheet (TDS)

### Description

Vital Coat X-440 sealer is a high performance, high solids water based low VOC Silane Siloxane penetrating sealer and water repellent for concrete and masonry surfaces. It penetrates deep into the surface and chemically reacts with the concrete to create a protective hydrophobic water repellant barrier yielding a longer lasting protection against water intrusion, salts, staining, freeze/thaw, mold and mildew, efflorescence, dusting, scaling and spalling. X-440 is a non-yellowing, UV resistant sealer that does not leave behind a visible surface film, and will not change the look or color of the surface. It will preserve the natural characteristics of the treated substrates.

### **Primary Applications**

X-440 Penetrating Sealer can be applied to residential and commercial, interior or exterior, horizontal or vertical structures. It protects concrete and masonry surfaces including architectural concrete, concrete block, split-face block, pavers, stucco, porous and dense brick, clay tile, etc. It is also an excellent choice for high-traffic areas because it does not create a slippery film on top of the surface. X-440 helps protect your concrete and masonry surfaces to resist common issues such as staining, cracking, spalling, efflorescence, and other damages caused by intrusion of water.

### Features/Benefits

- \*Does not change appearance of Substrate
- \*Reduces deterioration from spalling due to salt exposure
- \*Excellent resistance to mold and mildew
- \*Reduces chloride penetration
- \*Reduces dirt pick-up
- \*No slippery film is formed

- \*Provides superior water repellency while allowing substrate to breath
- \*Works on new or existing structures
- \*Provides a hydrophobic barrier to prevent water penetration
- \* Freeze/Thaw/de-icing salt resistant
- \*Efflorescence and strong alkali resistance
- \*UV resistant

### Technical Information

Property	Result	
Solids	5% 10%	
Appearance	Milky White Emulsion - Dries Flat/Clear	
Odor	Mild	
рН	9-Jun	
Application Temperature	50°F - 90°F	
Flashpoint	999°F	
VOC Content +/-2%	<30g/L	
Dry to Touch	2 hours	
Dry for Traffic	8 to 10 hours	

### Packaging

It is available in 1 Gallon (3.79 Liter) jugs, 5 Gallon (18.93 Liter) Pails, 55 Gallon (208.20 Liter) Drums, and 275 Gallon (1041 Liters) Totes. Delivery Restrictions May Apply. See shipping terms in terms and conditions. Other quantities available upon request.

### Coverage

Coverage rate is approximately 150 - 250 ft.2 /gal. (1.2 - 6.1 m2 /L). Coverage is approximate and may vary depending on surface finish/texture, concrete condition, climatic conditions, etc. Always apply to a test area first to determine actual coverage rate before full-scale application.

### Shelf Life

This product has a shelf life of up to two years in its original, sealed, unopened container. If product appears to be hardened or separated contact Vital Coat before use.

### Directions for Use

**General Instructions:** Before using this product read the Technical Data Sheet (TDS) and the Safety Data Sheet (SDS) found at www.vitalcoat.com. Apply in temperatures between 40°F - 90°F (4°C – 32°C). Always tighten lid thoroughly after use. Always perform a test application for proper penetration on each type of surface prior to full-scale application to determine suitability and final appearance. Test using the recommended application instructions. Let area dry thoroughly before inspection.

**Surface Preparation:** Surface preparation is important. Surfaces must be structurally sound, clean and free from as much dirt, stains, efflorescence, oil, and other contamination as possible. Protect people, vehicles, property, plants, and all surfaces from exposure to the product, from splash, residue, and wind drift before application. Do not mix or add any other chemical to this product. Insure that surface is thoroughly dried before application. Excessive moisture inhibits sealer penetration. A small test must be conducted prior to application. Based upon this test, the purchaser shall determine for themselves the suitability of this product for the intended use. Allow 14 - 28 days for new concrete or masonry to cure before applying X-440.

Application: X-440 can be sprayed, brushed or rolled. For best results, using a quality sprayer capable of a producing a steady pressure under 40 psi. A .1 - .2 GPM tip is recommended. Completely saturate the surface ensuring that the entire surface is saturated. Do not let the product puddle on the surface or dry on the surface. Back roll with a brush or a medium nap paint roller. DO NOT OVERAPPLY. Let dry for 10 to 15 minutes. If second coat is needed, apply wet-on-wet. On highly permeable surfaces, additional coats may be necessary. On vertical applications, apply from the bottom up. Protect surfaces from rainfall for six hours following treatment. Many surfaces need several days to develop optimum water repellency. Immediately clean tools, equipment, and overspray with soap and warm water.

**Drying:** Do not touch treated surface during dry time. Do not add water or allow water to come in contact while curing. Protect surface from debris coming in contact with surface while drying. Allow to dry completely for approximately 24 hours before allowing heavy traffic on the treated surface.

#### Clean-up

Immediately after use, Clean tools and equipment with soap and water. Dispose of containers in accordance with local and federal regulations.

### Precautions/Limitations

Before handling, consult the Safety Data Sheet and Container Labels for physical and health hazard information.

Do not allow products to freeze in storage or during application.

It is not recommended to apply Vital Coat Sealers over other types of sealers.

Minimum surface and ambient temperature of 45°F (7°C) and rising at the time of application.

For optimum results, condition material to 65°F to 85°F (18°C to 29°C) at least 24 hours prior to use.

Do not alter or add any other chemical to the product. Do not dilute unless specified in the Technical Data Sheets.

X-440 will not hide existing surface stains. Temporary darkening of some substrates may occur

Not intended for use on surfaces that will be constantly be submerged in water.

Mix well before using.

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#### **Vital Coat**

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# SAFETY DATA SHEET

Issuing Date 6-29-2020 Revision Date Revision Number

NGHS / English

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# 1. IDENTIFICATION

Product identifier

**Product Name** Vital Coat X-440, X-440 C Penetrating Sealer

Other means of identification

Product Code(s) T1205

Recommended use of the chemical and restrictions on use

Recommended Use Concrete and Masonry Water Repellant

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Identification NxTech Holdings LLC

Address 2172 Arendell Way

Tallahassee

FL 32308 US

Telephone Phone:1-844-284-2858

E-mail info@vitalcoat.com

Emergency telephone number

Emergency Phone Number INFOTRACK: 800-535-5053 ID 72826

# 2. HAZARDS IDENTIFICATION

Classification

Not classified.



The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance Milky White

Physical state Liquid

Odor Acetic

### GHS Label elements, including precautionary statements

#### **Hazard statements**

Not classified.

#### **GHS Ratings:**

There are no GHS ratings that apply to this product

#### **GHS Hazards**

There are no GHS ratings that apply to this product

#### **GhS Precautions**

There are no GHS ratings that apply to this product

### Other information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Substance</u>

Chemical Name	CAS	% Range
	Number	_
Triethoxy(2,4,4-trimethylpentyl)silane	35435-21-3	2% - 10%
Silsesquioxanes, methyl, ethoxy terminated	104780-78-1	.5% - 1.5%
Poly(oxy-1,2-ethanediyl), .alphaisotridecylomegahydroxy	9043-30-5	.1%5%

### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

# 4. FIRST AID MEASURES

### Description of first aid measures

**Inhalation** Move affected person to fresh air. If breathing has stopped, administer CPR. If the person

vomits, clean the

airway and turn their head to the side to prevent choking. If the person is unconscious but

breathing, place them stably



on their left side in the recovery position. Never give anything by mouth to an unconscious

person. Seek immediate medical attention.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Remove any contaminated clothing using appropriate gloves. Rinse skin thoroughly for 15

minutes in a shower or

with a hose. Seek immediate medical attention.

**Ingestion** Rinse mouth with water to remove any residual chemical. If the person vomits, clean their

airway and turn their head to the side to prevent choking. DO NOT induce vomiting and DO NOT give them anything to drink unless directed to do so by a physician. If the person is unconscious but breathing, place them stably on their left side in recovery position. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. No Specific antidote available

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Foam, CO2, Dry Chemical

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

Prevent firefighting run-off from entering drains or sewers.

Hazardous Combustion Products Fires involving this product may release oxides of carbon and nitrogen, reactive

hydrocarbons, and irritating vapors.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Methods and material for containment and cleaning up



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#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spills, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers. If a large spill occurs notify the appropriate authorities. In case of road spill or accident contact INFOTRAC (1-800-535-5053).

CAUTION: If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will also be regulated. Do not empty into drains. All disposal must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

### Advice on safe handling

Open containers carefully and in a well-ventilated area, and use appropriate respiratory protection. Wash hands thoroughly after handling. Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers contain product residue which may exhibit hazardous properties therefore, do not pressurize, cut, glaze, weld or use for any other purpose. Return drums to reclamation center for proper cleaning and reuse.

### Conditions for safe storage, including any incompatibilities

### **Storage Conditions**

Store in a cool, dry, well ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition..

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** 

Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Use safety eyewear with splash guards or side shields. Use additional eye protection such as chemical safety goggles when the possibility for eye contact from splashing, spraying liquid, or airborne material exists.

Skin and body protection

Avoid Contact with product. Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique



(without touching gloves outer surface) to avoid skin contact with this product.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

General - When using do not eat or drink. Wash hands with soap and water before breaks

and at the end of each workday.

Contaminated Equipment - Avoid contact with contaminated clothing and protective

gear/equipment. Wash before reuse.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Milky White. Dries Clear

Odor Slight
Color Dries clear
Odor Threshold Not applicable

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

<del>pH</del> 5.5

Melting / freezing pointNo data availableNone knownBoiling point / boiling range190°CNone known

**Flash Point** 999°C / 999°F

Evaporation Rate No data available None known

Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit No data available

Lower flammability limit No data available

 Vapor pressure
 No data available
 None known

Vapor density No data available None known

Relative density .949

Water Solubility No data available

Solubility(ies) No data available None known

Partition coefficient: n-octanol/water1

Autoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other Information

Explosive properties

Oxidizing properties

Softening Point

Molecular Weight

No information available
No information available
No information available

VOC Content (%) 0%

Liquid DensityNo information availableBulk DensityNo information availableParticle SizeNo information availableParticle Size DistributionNo information available

### 10. STABILITY AND REACTIVITY

**Reactivity** No information available.



**Chemical stability** Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

Conditions to avoid None known based on information supplied.

**Incompatible materials** Strong acids, strong bases, oxidizing agents.

Hazardous Decomposition Products Carbon Dioxide (CO2), Carbon Monoxide (CO), Oxides of Nitrogen (NOx), dense black

smoke.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Note - Toxicological studies have not been performed on this mixture. The toxicological data listed is compiled using data from the components of the mixture. Refer to Section 2 of this SDS for GHS classification of acute and chronic effects of exposure.

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Numerical measures of toxicity

### **Acute Toxicity**

### **Unknown acute toxicity** 20 % of the mixture consists of ingredient(s) of unknown toxicity

20 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

20 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

20 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.



**Germ cell mutagenicity**No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure**No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

**Bioaccumulation** There is no data for this product.

**Mobility** No information available.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Do not discharge product into sewer system. Dispose of in a licensed facility. Waste management should be in full compliance with federal, state, and local laws. The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

**Contaminated packaging** Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

DOT NOT REGULATED NON-REGULATED NON-REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated



ICAO Not regulated

IATA Not regulated NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

TSCA All substances except those listed below appear in the Toxic Substances Control Act,

Chemical Substance Inventory:

104780-78-1Silsesquioxanes, methyl, ethoxy terminated .5 – 1.5%.

DSL/NDSL
Contact supplier for inventory compliance status.

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

# **SARA 313**

This product does not contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40, of the Code of Federal Regulations, part 372:

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate



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classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# **US State Regulations**

### **California Proposition 65**

WARNING! This product contains the following substance(s) which are listed by the State of California as carcinogenic, or a reproductive toxin:

67-56-1 Methyl alcohol Carcinogen 75-21-8 Ethylene oxide Carcinogen 123-91-1 1,4-Dioxane Carcinogen

#### U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

### **16. OTHER INFORMATION**

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal Protection X

Prepared By NxTech Holdings LLC

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**Revision Note** 

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**Revision Date** 

**End of Safety Data Sheet** 

