



SDS/User Guide





Vital Coat Enhance & Seal Technical Data Sheet (TDS)

Description

Vital Coat Enhance and Seal is a high performance, deep penetrating water based low VOC silicone and organic polymer penetrating sealer. It is an excellent water repellent and enhancer on a wide variety of porous mineral substrates including concrete, natural and artificial stone as well as unglazed ceramic tile. 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. Vital Coat Enhance and Seal is a non-yellowing, UV resistant sealer that produces a nice enhanced look to your substrates.

Primary Applications

Vital Coat Enhance and Seal is a Color Enhancing Penetrating Sealer that can be applied to residential and commercial, interior or exterior decorative stone and concrete projects. It protects concrete, pavers, stucco, porous artificial and natural stone, clay tile, unglazed tile. It is also an excellent choice for high-traffic areas because it does not create a slippery film on top of the surface. Vital Coat Enhance and Seal helps protect your concrete and stone surfaces to resist common issues such as staining, cracking, spalling, efflorescence, and other damages caused by intrusion of water.

Features/Benefits

*Environmentally Friendly. Low VOC

- *High Performance
- *Produces a Vibrant Apperance
- *Cured surface can be painted

*Repels Water, Hindering Penetration *Seals in the Joints *Physically and Chemically Bonds to Substrate *Provides UV Protection

Technical Information

Property	Result	
Solids	10.0%	
Appearance	Milky White - Dries with a shiny appearance	
Odor	slight	
рН	9.2	
Application Temperature	50°F - 90°F	
Flashpoint	>199°F	
VOC Content +/-2%	<50g/L	
Dry to Touch	2 hours	
Dry for Traffic	24 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 $40^{\circ}F - 90^{\circ}F$ ($4^{\circ}C - 32^{\circ}C$). 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 much 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. Ensure 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 28 days for new concrete or masonry to cure before applying.

Application: Vital Coat Enhance and Seal can be applied by pump sprayer, sponge, brushed or rolled. For best results, using a quality pump 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 duringdry 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.

XP-900 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.

Issue Date 3/21/2021

Rev.

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Vital Coat

2172 Arendell Way - Tallahassee, Fl. 32308 Phone: Toll Free 844-284-2858 email: info@VitalCoat.com Visit us at www.vitalcoat.com

SAFETY DATA SHEET

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Revision Date

Revision Number

NGHS / English



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1. IDENTIFICATION Product identifier **Product Name** Vital Coat Enhance & Seal Other means of identification Product Code(s) VC34A 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** 1-844-284-2858 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 Prepared according to Global Harmonized System (GHS) Standards

Other Hazards

Inhalation of aerosol spray may damage health

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Characteristics - Polydimethylsiloxane with functional groups (dispersion in water)

This material does not contain any ingredients above the permitted limit(s). Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts ≥ 0.1%:

Chemical Name	CAS Number	Content (%)
Type INHA - Polyoxyethylene (t-octylphenyl) ether	9036-19-5	>=0.1-<.03

Type: INHA: ingredient, VERU: impurity

Ingredients not listed on this Safety Data Sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels

4. FIRST AID MEASURES

Description of first aid measures

General Information

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment

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. Rinse skin thoroughly for 15 minutes with plenty of water or with water and soap.
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

Flammable Properties:

Property: Flash Point Boiling Point/Boiling Rang Lower Explosion Limit (LEL) Upper Explosion Limit (UEL) Ignition temperature NFPA Hazard Class (comb./flam.liquid)	Value: >93° C(>199°F) Not determined Not determined Not determined Not determined IIIB	Method: (ASTM D3278, DIN 55680, ISO 3679)
Suitable Extinguishing Media	Material does not burn. Use exti	nguishing measures appropriate to the source of fire
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material w	ith 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 Sensitivity to Static Discharge	None. 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	Secure the area. Wear personal protection equipment. Keep unprotected persons away.
	Avoid contact with eyes and skin. Do not inhale gases/vapors/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.
HAZWOPER PPE LEVEL: D	
Methods and material for containme	nt and cleaning up
Methods for containment	Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.
Methods for cleaning up	Take up mechanically and dispose of per local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of per government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.
	CAUTION: If splited 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	Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8. Keep away from incompatible substances in accordance with section 10.
Precautions against fire and explosion:	Observe the general rules for fire prevention.

Conditions for safe storage, including any incompatibilities

Do not allow this material to freeze. Maximum temperature allowed during storage and transportation: 40 °C (104 °F)
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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	Ventilation: Use with adequate ventilation. Local exhaust: If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, such as a paint spray booth, is recommended.
Individual protection measures, suc	h 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.
Respiratory protection	No protective equipment is needed under normal use conditions. If spraying or other operations which generate an aerosol mist are conducted, wear an appropriate, properly fitted respirator (NIOSH/MSHA) until vapors are exhausted. Observe OSHA standard 29 CFR 1910.134 and ANSI Z88.2 requirements whenever workplace conditions require respirators use If exposure limits are 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 an	d chemical properties	
Physical state	Liquid	
Appearance	Milky White Liquid Dispersion	
Odor	Slight	
Color	Dries clear	
Odor Threshold	Not applicable	
Property_	Values	Remarks Method
рН	9.2	
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	93°C / >199°F	(ASTM D3278, DIN 55680, ISO 3679)
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	No data	None known
	available	None known
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Density	1.01 g/cm ³ at 25 °C (77 °F)	
Water Solubility	Completely miscible	
Kinematic viscosity	No data available	None known
Dynamic viscosity	3.37 mPa.s at 25 °C (77 °F)	None known
Other Information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	<50.0 g/L	
Liquid Density	No information available	
Bulk Density	No information available	
Particle Size	No information available	
Particle Size Distribution	No information available	
	10. STABILITY AND RE	EACTIVITY

Reactivity	If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
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	If stored and handled properly: none known. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.



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.

May cause damage to the following organs: Eyes, Skin

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.				
Carcinogenicity:	For this endpoint, no toxicological test data is available for the whole product.				
Other Toxicological Information:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.				

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	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

Completely discharge containers. Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name Hazard Class Other Information	NOT REGULATED NON-REGULATED N/A Protect from freezing, when exposed to cold temperatures approaching 0 °C (32 °F) or below.
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA Proper Shipping Name Hazard Class	Not regulated NON REGULATED N/A
IMDG/IMO Hazard Class	Not regulated 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	This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory. This material is in compliance under the 2% Polymer Rule.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.

ENCS	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	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

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory. This material is in compliance under the 2% Polymer Rule.

TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 313

This material does not contain any SARA 313 chemicals above the minimums levels.

SARA 311/312 Hazard Categories

This product does not present any SARA 311/312 hazards.

HAPS (hazardous air Pollutants)

CAS No.	Chemical	Upper limit wt.%
67-56-1	Methanol	<=0.0177
108-88-3	Toluene	<=0.0176
80-62-6	Methyl Methacrylate	<=0.0010

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 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product does not contain any chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

California Proposition 65 Reproductive Toxins:

67-56-1	Methanol
108-88-3	Toluene



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

<u>NFPA</u> HMIS	Health hazards 0 Health hazards 0		0 0	Instability 0 Physical hazards	0	Physical and Chemical Properties - Personal Protection X
Prepared By	2656 Ba	Holdings LLC ntry Bay Drive see, Fl. 32309 34-2858				
Issuing Date	3/21/202	0				
Revision Date						
Revision Note						

Disclaimer

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End of Safety Data Sheet

