





# H&C®

## SILICONE ACRYLIC

## CONCRETE SEALER

### SURFACE PREPARATION

**Testing:** Due to the wide variety of substrates, preparation methods, application methods and environments, the customer should test the product in an inconspicuous spot for adhesion and compatibility prior to full scale application.

All surfaces must be clean, dry and free of grease, oil, paint, sealers, etc. To clean, use H&C Degreaser, following label directions, rinse thoroughly and allow the surface to dry. If mold mildew or fungus are present, kill and remove by cleaning with a solution of 1 part household bleach to 3 parts water.

#### **Bare Concrete:**

New concrete must be cured 45 days. All horizontal concrete must be etched with H&C Concrete Etching Solution first, following label directions.

For very smooth surfaces (troweled surfaces with no porosity) use H&C Concrete Etching Solution at full strength. For smooth-troweled concrete with some porosity, 1 part H&C Concrete Etching Solution to two parts water should be used.

Do not etch painted surfaces.

Prepared concrete should have a pH between 6 and 10.

#### **Repair:**

For the best waterproofing protection on vertical concrete and masonry, patch and repair cracks and crevices where water can enter. Use ConSeal Sealants and Patches on exterior surfaces following label directions. On floor surfaces, use appropriate patching material. Patching compounds will generally be visible through clear coatings.

### APPLICATION

- Apply under dry conditions only. Do not apply if rain is expected within 12 hours following application.
- Air and surface temperature should be between 50° and 90°F during and for 24 hours following application.
- Do not over-apply.
- Stir thoroughly before and during application.
- Do not reduce.

**Brush**—Use a natural bristle brush

**Roller**—Use a 3/8" - 1/2" nap lambswool or other solvent-resistant cover

**Spray—Airless**

Pressure ..... 1500 psi

Tip ..... .013" - .017"

**Spray—Conventional**

Air Pressure ..... 30 - 50 psi

Fluid pressure ..... 15 - 20 psi

Cap/Tip ..... 704/FX or equivalent

**HVLP**

Cap/Needle ..... Titan #3 or equivalent

Backrolling recommended after airless spraying

**First Coat:** Apply first coat evenly, working in one direction. Allow to dry at least 12 hours before applying the second coat. Do not overwork—brushing or rolling back over partially dried material may cause lifting of the coating from the surface. Allow the material to dry properly and apply another coat as needed.

**Second Coat:** For best coverage, apply the second coat perpendicular to the first coat. Two coats of H&C Silicone Acrylic Concrete Sealer are usually sufficient.

**Third Coat:** Apply if needed to uniform the finish in the same direction as the first coat.

#### **Slip Resistance**

Some surfaces such as inclined driveways, garages, steps, patios, etc., may require a slip resistant additive for safety. Add H&C SharkGrip® Slip Resistant Additive to the final coat applied following label directions. This product should not be used in place of a non-skid finish.

### CLEANUP INFORMATION

Clean spills and spatters and tools immediately with H&C™ D-100 Solvent, Xylene, or Toluene. Follow manufacturer's safety recommendations when using any solvent. Use "waterless" hand cleaner to remove dried material from skin.

### CAUTIONS

Do not use on wood surfaces.  
Do not use on areas sensitive to solvent attack, including asphalt.  
For atmospheric use only.  
Non-photochemically reactive.

Contents are **FLAMMABLE**. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated. Do not smoke. Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and any other sources of ignition. Contains **XYLENE**. **VAPOR HARMFUL**. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed, get medical attention immediately. **DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE.** Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

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The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Sheet.

# MATERIAL SAFETY DATA SHEET

10.00000-  
04 00

## Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

|                |                |
|----------------|----------------|
| PRODUCT NUMBER | HMIS CODES     |
| 10.00000-      | Health 2*      |
|                | Flammability 3 |
|                | Reactivity 0   |

PRODUCT NAME  
H & C Silicone Acrylic Concrete Sealer, Clear

MANUFACTURER'S NAME  
H&C CONCRETE STAINS  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

DATE OF PREPARATION  
12-AUG-03

EMERGENCY TELEPHONE NO.  
(216) 566-2917

INFORMATION TELEPHONE NO.  
(216) 566-2902

## Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

| % by WT | CAS No.   | INGREDIENT               | UNITS         | VAPOR PRESSURE |
|---------|-----------|--------------------------|---------------|----------------|
| 9       | 100-41-4  | Ethylbenzene             |               |                |
|         |           | ACGIH TLV                | 100 ppm       | 7.1 mm         |
|         |           | ACGIH TLV                | 125 ppm STEL  |                |
|         |           | OSHA PEL                 | 100 ppm       |                |
|         |           | OSHA PEL                 | 125 ppm STEL  |                |
| 49      | 1330-20-7 | Xylene                   |               |                |
|         |           | ACGIH TLV                | 100 ppm       | 5.9 mm         |
|         |           | ACGIH TLV                | 150 ppm STEL  |                |
|         |           | OSHA PEL                 | 100 ppm       |                |
|         |           | OSHA PEL                 | 150 ppm STEL  |                |
| 8       | 98-56-6   | p-Chlorobenzotrifluoride |               |                |
|         |           | ACGIH TLV                | Not Available | 5.3 mm         |
|         |           | OSHA PEL                 | Not Available |                |

## Section 3 -- HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

Continued on page 2



For complete discussion of toxicology data refer to Section 11.

#### Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes.  
Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing.  
Keep warm and quiet.

INGESTION: Do not induce vomiting.  
Get medical attention immediately.

#### Section 5 -- FIRE FIGHTING MEASURES

##### FLASH POINT

80 F PMCC

LEL

0.9

UEL

10.5

##### FLAMMABILITY CLASSIFICATION

RED LABEL -- Flammable, Flash below 100 F

##### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

##### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

##### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus could be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### Section 6 -- ACCIDENTAL RELEASE MEASURES

##### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

#### Section 7 -- HANDLING AND STORAGE

##### STORAGE CATEGORY

DOL Storage Class IC

##### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

Continued on page 3

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

|  |                   |  |
|--|-------------------|--|
| PRODUCT WEIGHT                               | 8.01 lb/gal       | 960 g/l                                  |
| SPECIFIC GRAVITY                             | 0.96              |  |
| BOILING POINT                                | 277 - 292 F       | 136 - 144 C                              |
| MELTING POINT                                | Not Available     |  |
| VOLATILE VOLUME                              | 70 %              |  |
| EVAPORATION RATE                             | Slower than ether |  |
| VAPOR DENSITY                                | Heavier than air  |  |
| SOLUBILITY IN WATER                          | N.A.              |  |
| VOLATILE ORGANIC COMPOUNDS (VOC Theoretical) |                   |  |
| 4.88 lb/gal                                  | 585 g/l           | Less Water and Federally Exempt Solvents |
| 4.59 lb/gal                                  | 550 g/l           | Emitted VOC                              |

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 Section 10 -- STABILITY AND REACTIVITY  
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ABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

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 Section 11 -- TOXICOLOGICAL INFORMATION  
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CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

| CAS No.   | Ingredient Name          |      |     |     |               |
|-----------|--------------------------|------|-----|-----|---------------|
| 100-41-4  | Ethylbenzene             | LC50 | RAT | 4HR | Not Available |
|           |                          | LD50 | RAT |     | 3500 mg/kg    |
| 1330-20-7 | Xylene                   | LC50 | RAT | 4HR | 5000 ppm      |
|           |                          | LD50 | RAT |     | 4300 mg/kg    |
| 98-56-6   | p-Chlorobenzotrifluoride | LC50 | RAT | 4HR | Not Available |
|           |                          | LD50 | RAT |     | Not Available |

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 Section 12 -- ECOLOGICAL INFORMATION  
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ECOTOXICOLOGICAL INFORMATION

No data available.

Continued on page 5

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Section 13 -- DISPOSAL CONSIDERATIONS  
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## STE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

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Section 14 -- TRANSPORT INFORMATION  
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No data available.

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Section 15 -- REGULATORY INFORMATION  
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## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

| CAS No.   | CHEMICAL/COMPOUND | % by WT | % Element |
|-----------|-------------------|---------|-----------|
| 100-41-4  | Ethylbenzene      | 9       |           |
| 1330-20-7 | Xylene            | 49      |           |

## CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, the TSCA Inventory.

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Section 16 -- OTHER INFORMATION  
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This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume liability in connection with any use of this information.