TexNov

CONCRETE CONDITIONER

Increases adhesion and eliminates efflorescence

TexNov Concrete Conditioner is an acid water-based conditioner used to prepare a concrete or cement based surface (bricks, cobblestones and others) before applying a coating. It increases adhesion by removing contaminants, but also by creating a surface profile. ***TexNov Concrete Conditioner*** is excellent for cleaning most contaminants present on the surface (stained cement, efflorescence, dirt and limestone).

TexNov

Acrylic Coatings Manufacturer

TEXNOV CONCRETE CONDITIONER

Acid cleaner for cement based product preparation

1- Product Description

TexNov Concrete Conditioner is an acid water-based conditioner used to prepare a concrete or cement based surface (bricks, cobblestones and others) before applying a coating. It increases adhesion by removing contaminants, but also by creating a surface profile. ***TexNov Concrete Conditioner*** is excellent for cleaning most contaminants present on the surface (stained cement, efflorescence, dirt and limestone).

It is used to increase adhesion by removing contaminants and conditioning the concrete surface.

In case the surface is abnormally contaminated with organic deposits such as oil or grease, it is recommended to use an alkaline degreaser such as ***TexNov Surface Cleaner*** before applying ***TexNov Concrete Conditioner***.

2- Characteristics & Advantages

With its formulation based on a mixture of products: biodegradable surfactants, organic and inorganic acids, ***TexNov Concrete Conditioner*** is corrosive, with an acidic pH which greatly increases its efficiency.

- Increases adhesion of a new concrete overlay:
  - Creates a surface profile (acid etching)
  - Cleans the surface.
- Water-based, biodegradable
- 0% VOC (volatile organic compounds). It efficiently replaces muriatic acid which is much more corrosive.
- Passive effectively galvanized steel and other metals.

3- Coverage

(Undiluted)
1 L covers ± 5.5 m^2 (0.26 gal covers ± 60 ft^2)
3.78 L covers ± 21 m^2 (1 gal covers ± 225 ft^2)
18.9 L covers ± 105 m^2 (5 gal covers ± 1130 ft^2)

4- Mix

TexNov Concrete Conditioner must be diluted with water depending on the type of application desired.

Important note: For security reasons, when you dilute the product ALWAYS add ***TexNov Concrete Conditioner*** in the water rather than the opposite.

Application types	Product	Water
General cleaning of concrete	1	4
Cleaning of efflorescence and calcium salts traces	1	1 or 2
Concrete preparation before painting	1	1
Cleaning of old concrete (in poor condition)	1	1/2

5- Application

Consult the substrates sheets for the type of application in compliance with your type of surface or visit our website.

www.texnov.com

Apply in the shade at a temperature of 10 to 30°C. Avoid rain when cleaning. If the product dries or is badly rinsed, hard-to-clean white rings will appear on the concrete surface.

1- Before application protect vegetation and other materials that will not be treated by watering or covering with a plastic sheet. It is important to ensure that anything that can potentially take off is removed.

2- Work in sections of up to 100 ft^2 for each time.

IMPORTANT: Thoroughly wet the section of concrete surface to be treated before applying TexNov Concrete Conditioner.

3- Diluted in the proportions according to the type of application desired (see table). Apply the ***TexNov Concrete Conditioner*** to the surface to be treated with a spray, cloth or brush. The treatment will produce white foam on the concrete surface, which indicates that the product is acting.

The application instructions and performance characteristics are based on information we believe to be reliable.
They are offered to the best of our knowledge, but without guarantee, as conditions and methods of use of our products are beyond our control.

4- Run a broom / brush immediately after application by pushing and rubbing the surface (this should not take more than a few minutes).

5- Rinse immediately by spraying with water on the treated surface (pressure washer). Continue rinsing until the foam disappears.

6- Process in the next section. The treatment can be repeated on some parts that produce little or no white foam at initial treatment.

7- Allow the surface to dry completely before coating. Take 48 hours of good weather minimum and make a humidity test using a hygrometer.

Note: A poorly rinsed surface may prevent good adhesion of the finish coat and damage the cementitious surface.

For the conditioning of metal surfaces (galvanized steel) with the ***TexNov Concrete Conditioner*** consult the technical services of ***Texnov Inc***.

6- Personal Protection

When using ***TexNov Concrete Conditioner***, it is recommended to wear the following safety equipment:

- Safety goggles or protective glasses
- Chemical resistant gloves
- Long sleeves and/or rubber based protective clothing
- A face mask if ventilation is inadequate.

7- Storage/Shelf Life

Store ***TexNov Concrete Conditioner*** at a controlled temperature ranging from 5 to 30°C (41 to 86°F) in a sealed plastic container. Keep away from frost. Product life cycle is of 3 years.

8- Transport conditions

Shipping Name: UN 3264.
CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S. (Hydrochloric acid)
TDG Classification: Class 8, Packing group II.

9- Physical Properties

Appearance: Colorless liquid
Smell: Light Acid
pH (1 % sol.): 1.5 – 2.5
Rinses: Excellent
Biodegradability: Good
Density: 1.1g/mL
VOC: 0%
(Volatile Organic Compounds)

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SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PRODUCT	COMPANY IDENTIFICATION
Name: Concrete Conditioner **Description:** Powerful acid cleaner for concrete. **Restriction of use:** Use between 5 and 30°C.	**TexNov inc.** 839 Joseph-Louis-Mathieu Sherbrooke, Québec, Canada J1R 0X3 **Emergency Phone Number:** 1 877 316-6388

SECTION 2 - HAZARD IDENTIFICATION

Pictograms

Warning statements
DANGER
Product classification
Skin corrosion - Category 1B
Serious eye damage / eye irritation - Category 1
Health hazards not otherwise classified - Category 1 Corrosive
Hazard statements
Causes severe skin burns and eye damage.
Causes serious injury to the respiratory tract.
Precaution advice
Prevention: Do not breathe mist, vapors and spray. Wear protective gloves, protective clothing, eye and face protection. Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product.
Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor.
Storage: Keep locked up.
Disposal: Dispose of contents/container in accordance with local

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS number	% (weight/weight)
Hydrochloric acid	7647-01-0	1 - 5
Sulfamic acid	5329-14-6	7 - 13
Citric acid	77-92-9	3 - 7

Based on current knowledge and applicable concentrations, there are no other ingredients in this product that are classified as hazardous by GHS and that should be reported in this section. The actual concentration range is withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention as soon as possible.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Thoroughly wet contaminated clothing. If irritation persists, consult a doctor.

Inhalation: Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Symptoms: This product is irritating and corrosive to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

Effects (acute or delayed): If on skin, this product causes severe burns. Contact with eyes may cause redness, tearing, edema, pain, corneal opacity and even blindness. Inhalation, ingestion and high concentration exposure can cause severe burns and lead to severe lesions and ulcerations of the esophageal mucosa, airways leading to the lungs, gastrointestinal tract, mouth and digestive tract with possible perforation of the esophagus and stomach.

Immediate medical attention and special treatment: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO^2, water spray (fog) or foam.

Unsuitable extinguishing media: Jets of water can facilitate the spread of fire.

Specific hazards arising from the hazardous product: May release dangerous fumes.

Hazardous combustion products: Nitrogen and sulfur oxides. Carbon monoxide and dioxide.

Special protective equipment and precautions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Protective equipment and emergency procedures: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined

spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. The handling of this product must comply with local regulations. Store in an airtight container located in a dry, well ventilated and soil corrosion resistant cemented. Refer to the storage of the ROHS standards and NFC. Keep away from combustible materials and bases. If the product is stored with other dangerous substances, refer to the NFC segregation table. Containers for corrosive substances shall be kept closed, carry clear identification of their contents and be handled with care. Note: this product attacks certain types of plastic, rubber or coating.

Conditions for safe storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatibility: Bases. Nitrates and nitrites. Chlorine. Oxidizing agents. Reductive agents. Alkali and finely divided metals (Ba, Be, Na, P, Al, Mg etc).

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS:

Occupational Exposure Limits:

Breathable dust	RSST		ACGIH TLV	
Ingredient	**VEMP**	**DIVS**	**TWA**	**STEL**
Hydrochloric acid	Not available	7.5 mg/m^3	0.45 mg/m^3	2.98 mg/m^3
Sulfamic acid	Not available	Not available	Not available	Not available
Citric acid	Not available	Not available	Not available	Not available

RSST : Regulation respecting occupational health and safety; VEMP : Weighted average exposure value
DIVS : Immediate danger to life and health; ACGIH : American Conference of Governmental Industrial Hygienists
TLV : Threshold limit value; TWA : Time-weighted average; STEL : Short-terrm exposure limit

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes: DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Others: Wear protective clothing with long sleeves and appropriate safety shoes at all times.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid.
Odor: Low odor of ammonia.
Odor threshold: Not available
pH: -0.35
Freezing point: 0ºC
Boiling point: 100ºC.
Evaporation rate: Not available.
Flammability (solid and gas): Not applicable.
Explosive limit: Not applicable.
Vapor pressure: same as water
Vapor density: Not available.
Relative density: 1,06.
Solubility in water: may be diluted with water.
Partition coefficient n-octanol / water: Not available.
Auto-ignition temperature: Not applicable.
Decomposition temperature: Not available.
Viscosity: Not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Stable under recommended conditions of storage and handling.
Chemical stability: The product is chemically stable under normal conditions of use.
Possibility of hazardous reactions: No dangerous or polymerization reactions will not occur under normal conditions of use.
Conditions to avoid: Keep away from incompatible products (see section 7).
Incompatible materials: This product may attacks metals and can damage materials such as glass, fiberglass, ceramics, and cement.
Hazardous decomposition products: Nitrogen and sulfur oxides. Carbon monoxide and dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of entry: This product may be absorbed through the respiratory, digestive and cutaneous routes.
Acute toxicity (calculated GHS):

Ingredient	LD_{50} oral, mg/kg	LD_{50} skin, mg/kg	LC_{50}, Vapours mg/L	LC_{50}, Mist mg/L
Hydrochloric acid	N/A	> 5000	2.328	0.5
Sulfamic acid	2140	> 5000	N/A	> 5.00
Citric acid	11700	> 2000	N/A	> 5.00

Routes of exposure: This product is not absorbed in the body, it exerts a local action that destroys tissue.
Symptoms: This product is irritating and corrosive to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).
Delayed and immediate effects: If on skin, this product causes severe burns. Contact with eyes may cause redness, tearing, edema, pain, corneal opacity and even blindness. Inhalation, ingestion and high concentration exposure can cause severe burns and lead to severe lesions and ulcerations of the esophageal mucosa, airways leading to the lungs, gastrointestinal tract, mouth and digestive tract with possible perforation of the esophagus and stomach.

Respiratory and skin sensitization: This product is not a respiratory or skin sensitizer.
Specific target organ toxicity: Not available
Carcinogenicity: No substances classified for these carcinogenic effects are present in the product (according to IARC, ACGIH and NTP).

IARC: International Agency for Research on Cancer.
NTP: National Toxicology Program

Reproductive toxicity: none
Germ cell mutagenicity: none

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicology: The product is easily biodegradable (DOB and COD).
Bioaccumulative potential: Not available.
Volatile organic compounds (V.O.C.) 0g / L.

SECTION 13 - DISPOSAL CONSIDERATIONS

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

SECTION 14 - TRANSPORT INFORMATION

	DOT	TMD	IMDG	IATA
# UN	3264	3264	3264	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid)
Transport hazard class	8 	8 	8 	8 
Packing group	II	II	II	II
Environmental hazard	No	No	No	No

DOT : Departement of Transportation (USA), TMD: Transport des Matières Dangereuses (CAN), IMDG : International Maritime Dangerous Goods, IATA : International Air Transport Association

Exemption for limited quantity: 1 L
In accordance with the Canadian Transport of Dangerous Goods regulations by Road, we use the 1.17 exemption when applicable. In accordance with 49 CFR article 172.315 for transportation by a mode other than air, we use the Limited quantities exemption when applicable.

SECTION 15 - REGULATORY INFORMATION

WHMIS Classification 2015: Skin Corrosion - Category 1B, Serious Eye Damage - Category 1. The product classification and SDS have been developed in accordance with the HPR.

Canada

Ingredient	CAS number	%	DSL	NDSL	NPRI
Hydrochloric acid	7647-01-0	1 - 5	X		X
Sulfamic acid	5329-14-6	7 - 13	X		
Citric acid	77-92-9	3 - 7	X		

DSL : Domestic substance list, NDSL : Non-domestic substance list NRPI : National pollutant release inventory.

United States

Ingredient	CAS number	%	TSCA	PROP-65	Right to Know
Hydrochloric acid	7647-01-0	1 - 5	X		X
Sulfamic acid	5329-14-6	7 - 13	X		X
Citric acid	77-92-9	3 - 7	X		

TSCA : Toxic Substance Control Act, PROP-65: Proposition 65 Californie, Right to Know: Emergency planning and community Right-To Know Act.

SECTION 16 - OTHER INFORMATION

SDS prepared by: Texnov inc.
Emergency telephone number: 1-877-316-6388
Revision Date: 2023-07-01
Warning: The information and recommendations contained in this document have been written to the best of knowledge and technical data collected by Texnov Inc. at the time of the revision. This document is intended to inform users of the product about the precautionary measures when using the product. No warranty is given on the properties mentioned on the products. No liability will be assumed for cases of misuse of the product or failure to observe the safety instructions contained in this document.