

#602 EPOXY SURFACE SEALER

DESCRIPTION

#602 is a 100% solids, non sag epoxy paste used primarily for sealing cracks prior to injection with #1001 injection epoxy or #900 polyurethane resin. This FAST SETTING paste enables the user to inject within 30 minutes.

CAUTION

THIS MATERIAL IS INTENDED FOR INTERIOR USE OR EXTERIOR APPLICATIONS WHERE SURFACE SEALER WILL BE REMOVED AFTER INJECTION RESIN HAS CURED.

Manufacturer

CPR Products, Inc.
1315 West Lark Ind. Park.
St. Louis, MO 63026
Telephone: [636] 717-0666
Fax [636] 717-0665
Toll Free: [888] 531-8940

PROPERTIES OF #602 EPOXY SURFACE SEALER

Mix Ratio	1:1 by volume	
Pot Life	5-8 minutes	
Injectable Cure Time	30 minutes] @77°F
Cure Time	24 hours	

Benefits

- Easy 1:1 mix ratio
- No shrinkage
- Excellent adhesion to concrete, wood and metals
- Smooth consistency, easy to feather edge
- Non sag

Cured Properties

Compressive Strength	7,920 psi
Tensile Strength	3,280 psi
Tensile Elongation	.2%
Slant Shear Strength	100% concrete failure
Shore D Hardness	85 – 90

How to use

Surface Preparation:

Before application of compound, surface must be clean and sound. Remove all dirt, laitance, grease, curing compounds and other foreign matter. Roughen surface with wire brush or wire wheel.

Mixing:

Blend one Part A with one Part B by volume until uniform gray color [no streaks]. Incorrect mix ratio will prevent proper cure. Do not mix more than can be used within 5-8 minutes.

Application:

Setting surface mount ports
Prepare a small batch of #602 for use as an adhesive for setting ports. Apply a thin bead of material around the perimeter of the ports' base.

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Application continued:

Center barrel of port over crack and press into place. Be careful not to plug the opening in the bottom of the port.

Sealing crack

Mix additional surface seal material as previously described, then, using a putty knife or margin trowel seal off the crack and around the base of each port. Use forceful strokes of the putty knife or margin trowel while sealing in order to insure proper bond to roughened concrete surface. Apply approximately 1/8" thick layer of material by 3" wide over the center of the crack

Limitations/ Precautions

Temperature of substrate must be above 40°F. New concrete must be at least 28 days old. Alteration of #602 with solvents for thinning purposes will prevent proper cure.

Danger! Causes severe eye and skin burns. May cause blindness. Harmful if swallowed. May cause allergic reaction. Do not get into eyes, skin or clothing. Use safety glasses and wear protective rubber gloves. Avoid breathing vapor or mist. Keep container closed. Use only in well ventilated areas. In case of contact, wash immediately with soap and water. Keep away from all food and food containers.

Cleaning

All tools and equipment should be cleaned before the system gels. Use M. E. K. Or safety solvent when necessary.

Packaging

- 22 oz. Dual Cartridges packed 12 sets per case

Storage

#602 should be stored in a dry environment between 60-80°F.

Technical Service

Complete technical service and specification services are available from the manufacturer and their authorized representatives.

Warranty

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

CPR PRODUCTS, INC.

1315 West Lark Ind. Park St. Louis, MO 63026 Phone [636] 717-0666 Toll Free 888-531-8940

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #602 PART A

Company: CPR Products, INC.
1315 W. Lark Industrial Dr.
St. Louis, MO 63026

Telephone: 636.717.0666

Emergency Telephone Number: INFOTRAC: 1-800-535-5053

Section 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin irritation: Category 2, H315
Skin Sensitization Category 1 H317
Eye irritation: Category 2, H319

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:



SIGNAL WORD: Warning

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

HAZARD STATEMENTS: H315 Causes skin irritation.

H315 Causes skin irritation
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

RESPONSE: P261 Avoid breathing mist/vapors/spray
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, clothing, and eye/face protection.
P302 + P352 IF ON SKIN: wash with plenty of soap and water
RESPONSE: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P337+P313 If eye irritation persists: Get medical attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

STORAGE: Not applicable.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

HMIS RATING:

CHEMICAL NAME	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

equipment recommendations.

Potential Health Effects

Eye contact: Mild or moderate irritation, possible minor temporary cornea injury.
Skin contact: May cause skin irritation on prolonged or repeated exposure.
Skin absorption: Not considered toxic.
Inhalation: May cause nasal irritation, central nervous system depression or lung injury.
Chronic effects of over exposure: None

OSHA GHS Classification

This product is classified as hazardous as defined within the GHS OSH Hazard Communication Standard 29CFR1910 1200

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substances N/A

Mixtures		Concentration		
Bisphenol A Epoxy Resin	25058-99-8	N/E	N/E	>50
Calcium Carbonate	1317-65-3	N/E	N/E	>50
Silica, amorphous, fumed, crystalline free	112945-52-5	N/E	N/E	2

GHS/CLP: Skin Irrit. 2 - H315; Skin Sens. 1 - H317; Eye Irrit. 2 - H319

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

Section 4 - FIRST AID MEASURES

Description of First Aid Measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Drench the affected area immediately with plenty of water:

Remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes

Seek medical attention if irritation, rash or other adverse effects occur.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eye lids. Get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop

Most important symptoms and effects both acute and delayed

Skin irritation, allergic reactions.

Indication of immediate medical attention and special treatment needed

No specific antidote; treat symptomatically

Eye wash stations and emergency showers should be available.

Section 5 - FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Foam, carbon dioxide, dry chemicals or fog. Use water spray to cool fire exposed containers. **Do not use direct water stream which may spread fire.**

Special Fire Fighting Procedures: Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

Unusual Fire or Explosion Hazards

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Advice for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 6: Accidental Release Measures

Special Protection: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be

necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

Steps to be taken in case of material is released or spilled:

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

Transport Emergency Phone Number: (INFOTRAC) 1-800-535-5053

Section 7: Handling and Storage

Handling: Harmful or irritation material. Avoid contact and avoid breathing the material
Use only in a well ventilated area.

Storage: Store in a cool, dry place.

Section 8: Exposure Control/Personal Protection

Respiratory Protection: If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910134). Not required for properly ventilation area.

Ventilation: Local exhaust and general ventilation is recommended.

Section 8: Exposure Control/Personal Protection (continued)

Hand Protection: Nitrile Rubbers gloves.

Eye Protection: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 9: Physical and Chemical Properties

Physical state: Gel
Color: White
Odor: Aromatic Odor
Weight by gallon: 12 lbs.
Solids (% by weight) 100
V.O.C. 0 g/L
Boiling range: 280 F
Melting point: N/A
Density: 1.16
Percent volatile: 0 by Weight
Vapor density (air=1): Heavier than air
Vapor pressure (mm Hg): N/A
Evaporation rate: N/A
Water miscibility: Limited

Section 10: Stability and Reactivity

Stability: Stable
Incompatibility: Strong Oxidizers, acids, bases and epoxy hardeners under controlled conditions.
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, smoke. Others Unknown.
Conditions to avoid: Heat and warm storage.

Section 11: Toxicological Information

Chemical Name LD50/LC50
Epoxy Resin Not established

Section 12: Ecological Information

Overview: No ecological information available.

Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated
IATA: Not Regulated

Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es): N/A

SARA Hazard Classification: SARA Title III Regulations (40 CFR 370): Acute

SARA Section 313 Listed Ingredients: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT Proper Shipping Name: n/a

UN Number: n/a

Section 16: Other Information

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that, at the time and place we make shipment, our material will meet the current published physical properties when applied with CPR's directions and tested in accordance with ASTM standards. CPR Products, Inc.'s liability is limited to replacement of material found to be defective, as CPR Products has no control over the use to which others may apply its products. It is recommended that the product be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the contractor and owner for the design, application and proper installation of each product. Nothing contained herein should be construed to be a recommendation to use, or as a license to operate under or to infringe any existing patents.

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #602 - PART B

Company: CPR Products, INC.
1315 W. Lark Industrial Dr.
St. Louis, MO 63026

Telephone: 636.717.0666

Emergency Telephone Number: INFOTRAC: 1-800-535-5053

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008

Classification according to the Regulation Directive 199/45/EC: [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment

Information Concerning particular hazards for human and environment:

Product Description: This product is grey heavy paste with a sweet amine odor

Health Hazards: May cause skin sensitization.

Flamability Hazards: This product is flammable above it's flashpoint of 380F (195 C)

Reactivity Hazards: None known.

Environmental Hazards: The environmental effects of this product have not been investigated; however it is not expected to cause significant adverse effects.

Emergency Considerations: Emergency responders must wear proper personal protective equipment (and have appropriate fire suppression equipment) suitable for the situation to which they are responding.

Classification system:

This classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labeling according to Regulation (EC) no. 1272/2008:

Hazard Pictograms:



Signal Word: WARNING

GHS Class: Eye irritant, Category 2.

Irritant, Category 2.

Hazard Statements: H315 - Causes skin irritation
H320 - Causes eye irritation

Precautionary Statements:

P264: Wash hands thoroughly after handling

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

P280: Wear protective clothing, gloves, eye and face protection.

P301+P330+P314 - If Swallowed: Rinse mouth and get medical attention if you feel unwell.

H302+352 : If on Skin: Wash with plenty of soap and water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes and remove contacts I present and easy to do. Continue rinsing.

H313: May be harmful in contact with skin

H317: May cause an allergic skin reaction

Response Statements

P337+P313If eye irritation persists:Get medical advice/attention.

P370+P378-In case of fire:Use appropriate mediafor extinction

P302+P353: IF ON SKIN: Wash with plenty of soap and waterfor extinction

P391: Collect spillage

P403+P235: Store in well ventilated place. Keep cool.

P501: Dispose of content and/or container in accordance with local, regional,national, and/or international regulations.

Hazard Description

This

HMIS-ratings (scale 0 - 4)

CHEMICAL NAME	
HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

2.3 Other Hazards

None Known

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not "hazardous" per the OSHA standard.

Section 3: Hazards Identifications

Chemical Name	CAS #	OSHA PEL *	ACGIH TLV*	WT%
Polymer Mercaptan	T/S	N/E	N/E	>50
Calcium Carbonate	1317-65-3	N/E	N/E	<50
Silica, amorphous, fumed, crystalline free	112945-52-5	N/E	N/E	2

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

*T/S - Trade Secret

Section 4: First Aid Measures

EMERGENCY & FIRST AID PROCEDURES:

Eyes: Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute of contact for maximum results.

Skin: Promptly wipe clean with paper or cloths and wash with soap and water. Remove contaminated clothing before reuse. Attention should be paid to hair, nose and eyes.

Inhalation: In case of exposure to high concentration of vapor or mist, remove person to fresh air.

Ingestion: If large amounts are swallowed, induce vomiting. Seek medical attention. May cause burns to mouth and throat.

Primary routes of entry: Inhalation, Ingestion, skin and eye contact.

Carcinogenity: This product does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC or OSHA.

Section 5: Fire Fighting Measures

Flash Point: >250 C

Test Method: Pensky-Marten Closed Cup (PMCC)

Lower Flammability Limit: N/A

Upper Flammable Limit: N/A

Recommended Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemicals or Fog.

Special Fire Fighting Procedures: Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

Unusual Fire or Explosion Hazards

(conditions to avoid): May produce hazardous fumes or hazardous decomposition products, such as carbon dioxide, carbon monoxide, hydrogen sulfide, oxides of sulfur and nitrogen.

Section 6: Accidental Release Measures

Special Protection: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

Steps to be taken in case of material is released or spilled: Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

Transport Emergency Phone #: (INFOTRAC) 1-800-535-5053

Section 7: Handling and Storage

Handling: Harmful or irritation material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage: Store in a cool, dry place.

Hygienic Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Section 8: Exposure Control/Personal Protection

Respiratory Protection: If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910.134). Not required for properly ventilation area.

Ventilation: Local exhaust and general ventilation is recommended.

Hand Protection: Nitrile Rubbers gloves.

Eye Protection: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 9: Physical and Chemical Properties

Physical state: Gel
Color: Black
Odor: Sulfur like
Weight by gallon: 11.5
Solids (% by weight) 100
V.O.C. 0 g/L

Boiling range: Not determined
Melting point: Not determined
Density: 1.3
Percent volatile: Not determined
Vapor density (air=1): Not Volatile
Vapor pressure (mm Hg): Not determined
Evaporation rate: Not determined
Water miscibility: Negligible solubility in water.

Section 10: Stability and Reactivity

Stability: Stable

Incompatibility: Strong oxiders, epoxy resin, and amine mixtures especially when hot.
Hazardous polymerization: Not Reported
Hazardous decomposition products: Oxides of Carbon and Phenolics under burning conditions
Conditions to avoid: Heat, flames, incompatible materials and freezing temperatures below 32 F.

Section 11: Toxicological Information

Chemical Name LD50/LC50
Polymer Mercaptan Not established

Section 12: Ecological Information

Overview: No ecological information available.

Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated as hazardous material for transportation
IATA Shipping Name: Aviation Regulated Liquid, N.O.S. (Mercaptan-terminated polymer)
IATA UN Number: UN 3334
IATA Hazard Class: 9
IATA Packing Group: III
IMDG Shipping Name: Not Regulated as hazardous material for transportation

Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es): N/A

SARA Hazard Classification: SARA Title III Regulations (40 CFR 370): N/A

SARA Section 313 Listed Ingredients: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

Section 16: Other Information

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that, at the time and place we make shipment, our material will meet the current published physical properties when applied with CPR's directions and tested in accordance with ASTM standards. CPR Products, Inc.'s liability is limited to replacement of material found to be defective, as CPR Products has no control over the use to which others may apply its products. It is recommended that the product be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the contractor and owner for the design, application and proper installation of each product. Nothing contained herein should be construed to be a recommendation to use, or as a license to operate under or to infringe any existing patents.

#1001 INJECTION EPOXY

DESCRIPTION

100% Solids moisture insensitive epoxy designed to permanently restore structural strength to cracked concrete. Unique wetting properties allow for maximum penetration into cracks above 0.005".

COMPLIANCES .

.....ASTM C881 TYPE I,II,IV
GRADES 1f@J, 2fAJžJL
 and 3f9 < JL CLASS B & C

Manufacturer

CPR Products, Inc.
 1315 West Lark Ind. Park.
 St. Louis, MO 631026
 Telephone: [636] 717-0666
 Fax: [636] 717-0665
 Toll Free: [888] 531-8940

PROPERTIES OF #1001 INJECTION EPOXY

Mix Ratio	2:1 by volume	
Pot Life	15 minutes	
Gel Time	30 minutes] @75°F
Initial Cure	3-5 hours	
Final Cure	24-48 hours	

Mixed Viscosity

LV	Low Viscosity	150 cps.
MV	Medium Viscosity	650 cps.
HV	High/Heavy Viscosity	13,000 cps.
EHV	Extra High Viscosity	Gel

Cured Properties

Compressive Strength	ASTM D-695	14,480 psi
Slant Shear Strength	ASTM D-1111	1,520 psi [FI days]
Tensile Strength	ASTM D-638	8,315 psi
Shrinkage	ASTM C-883	<0.001
Heat Distortion	ASTM D-648	>120°F
Water Absorption		0.1989%
Shore D Hardness		75-80

Benefits

- Moisture insensitive, cures on damp or wet surfaces.
- Easy 2:1 mix ratio
- No shrinkage
- Excellent adhesion to concrete, wood and metals.
- Deep penetrating and tenacious bonding of cracks in structural concrete.

How to use :

Surface Preparation: Surface must be clean and sound. Remove all dirt, grease, wax, curing compounds and other foreign matter. Remove water and dust from all surfaces with an oil free air blast prior to application.

Mixing: Mix each component separately before blending two Parts A with one Part B by volume in a clean pail. Mix thoroughly for 3 minutes at a low speed drill.

Mix only the quantity that can be used within 15 minutes. If using automated or manual injection equipment, do not allow mixed material to reside in static mixing head for more than 10 minutes or blockage may result.

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1315 West Lark Ind. Park St. Louis, MO 63026 Phone 636-717-0666 Toll Free 888-531-8940

Application:

To gravity feed cracks on grade— sweep dry sugar sand into a V notched crack. Fill approx. 1/4". Pour neat #1001 into crack until completely filled. Top off as necessary.

To gravity feed cracks above grade— seal underside of slab with epoxy surface sealer. When paste is set up, pour neat #1001 into crack. Top off as necessary.

To pressure inject cracks— Use automated or manual equipment. Set appropriate injection ports based on system used. Seal ports and crack with epoxy surface sealer. Once the epoxy surface sealer has cured, inject #1001 with steady pressure beginning at the lowest port and working up. Consult Technical Service for more detailed instructions.

To anchor bolts, dowels and pins— Annular space around bolt should not exceed 1/8"; depth of embedment is typically 10-15 times the bolt diameter.

Limitations/Precautions

- Temperature of substrate must be above 40°F.
- New Concrete must be at least 28 days old.
- Do not thin, solvents prevent proper cure.
- Do not seal exterior slabs on grade

Component A Irritant— prolonged contact with skin may cause irritation. Avoid eye contact.

Component B Corrosive— Contact with skin may cause severe burns. Avoid eye contact. Product is a skin sensitizer. Use safety glasses and gloves. Avoid breathing vapors. Use adequate ventilation. In case of skin contact, remove any contaminated clothing. Wash area of contact with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Contact physician immediately.

Packaging

- 10.5 oz. Dual component single cartridges [fits standard caulking gun] packed 20 per case
- 16.5 oz. Dual cartridges packed 15 per case
- 3 gallon unit
- 15 gallon unit

Storage

#1001 should be stored in a dry environment between 60-80°F. Unmixed material may crystallize if exposed to temperatures below 60°F.

Technical Service

Complete technical service and specification services are available from the manufacturer and their authorized representatives.

Warranty

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

CPR PRODUCTS, INC.

1315 West Lark Ind. Park, St. Louis, MO 63026 Phone 636-717-0666 Toll Free 888-531-8940

SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #1001 INJECTION EPOXY RESIN PART A (LV/MV/HV)

Company: CPR Products, INC.
1315 W. Lark Industrial Dr.
Fenton, MO 63026

Telephone: 636-717-0666
636-717-0665 (Fax Line)

Emergency Telephone Number: 1-800-535-5053 INFOTRAC

Section 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin irritation: Category 2, H315
Skin Sensitization Category 1 H317
Eye irritation: Category 2, H319

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:



SIGNAL WORD: Warning

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective

HAZARD STATEMENTS: H315 Causes skin irritation.

H315 Causes skin irritation

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

RESPONSE: P261 Avoid breathing mist/vapors/spray

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves, clothing, and eye/face protection.

P302 + P352 IF ON SKIN: wash with plenty of soap and water

RESPONSE: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313 If eye irritation persists: Get medical attention.

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

P391 Collect spillage.

STORAGE: Not applicable.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

Section 2 - HAZARDS IDENTIFICATION (continued)

HMIS RATING:

CHEMICAL NAME	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Potential Health Effects

Eye contact:	Mild or moderate irritation, possible minor temporary cornea injury.
Skin contact:	May cause skin irritation on prolonged or repeated exposure.
Skin absorption:	Not considered toxic.
Inhalation:	May cause nasal irritation, central nervous system depression or lung injury.
Chronic effects of over exposure:	None

OSHA GHS Classification

This product is classified as hazardous as defined within the GHS OSH Hazard Communication Standard 29CFR1910 1200

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substances N/A

Mixtures

	<u>CAS#</u>	<u>%</u>
Bisphenol A Epoxy Resin	25058-99-8	<75
Alkyl C12- C14 Glycidyl Ether	68609-97-2	>25

EINECS: 271-846-8
HAZARD CLASSIFICATION: [Xi] Irritant
RISK PHRASES: R38, R43

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

Section 4 - FIRST AID MEASURES

Description of First Aid Measures

General advice: consult a physician; show this SDS to doctor in attendance.

In the event of skin contact: Drench the affected area immediately with plenty of water:

Remove contaminated clothing. Wash thoroughly with soap and water for at least 15 minutes

Seek medical attention if irritation, rash or other adverse effects occur.

In the event of eye contact: Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eye lids. Get medical attention if symptoms persist.

In the event of exposure by inhalation: Move person to fresh air. Get medical attention if symptoms develop

Most important symptoms and effects both acute and delayed

Skin irritation, allergic reactions.

Indication of immediate medical attention and special treatment needed

No specific antidote; treat symptomatically

Eye wash stations and emergency showers should be available.

Section 5 - FIRE FIGHTING MEASURES

Recommended Extinguishing Media: Foam, carbon dioxide, dry chemicals or fog. Use water spray to cool fire exposed containers. **Do not use direct water stream which may spread fire.**

Special Fire Fighting Procedures: Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

Unusual Fire or Explosion Hazards

Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, phenolics, aldehydes; smoke may contain particles of the original material as well. Prevent fire-fighting waters from entering sewer or waterways.

Advice for fire fighters: Use protective fire fighting clothing and positive pressure selfcontained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection:

Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 6: Accidental Release Measures

Special Protection:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

Steps to be taken in case of material is released or spilled:

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

Transport Emergency Phone Number: (INFOTRAC) 1-800-535-5053

Section 7: Handling and Storage

Handling:

Harmful or irritation material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.

Storage:

Store in a cool, dry place.

Section 8: Exposure Control/Personal Protection

Respiratory Protection:

If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910.134). Not required for properly ventilation area.

Local exhaust and general ventilation is recommended.

Ventilation:

Hand Protection:

Nitrile Rubbers gloves.

Eye Protection:

Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection:

Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 9: Physical and Chemical Properties

Physical state:	Liquid
Color:	Clear
Odor:	Aromatic Odor
Weight by gallon:	9.5
Solids (% by weight)	100
V.O.C.	0 g/L
Boiling range:	280 F
Melting point:	N/A
Density:	1.2
Percent volatile:	0 by Weight
Vapor density (air=1):	Heavier than air
Vapor pressure (mm Hg):	N/A
Evaporation rate:	N/A
Water miscibility:	Limited

Section 10: Stability and Reactivity

Stability:	Stable
Incompatibility:	Strong Oxidizers, acids, bases and epoxy hardeners under controlled conditions.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Carbon Monoxide, Carbon Dioxide, smoke. Others Unknown.
Conditions to avoid:	Heat and warm storage.

Section 11: Toxicological Information

<u>Chemical Name</u>	<u>LD50/LC50</u>
Epoxy Resin	Not established

Section 12: Ecological Information

Overview:	No ecological information available.
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Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated
IATA: Not Regulated

Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es): N/A

SARA Hazard Classification: SARA Title III Regulations (40 CFR 370): Acute

SARA Section 313 Listed Ingredients: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT Proper Shipping Name: n/a

UN Number: n/a

Section 16: Other Information

This information is furnished without warranty, representation inducement or license of any kind, except that is accurate to the best of CPR's knowledge, or obtained from sources believed by CPR to be accurate and CPR does not assure any legal responsibility for use reliance upon the same. Customers are encouraged to conduct their own tests. Before using any product, please read its label.

Revision Date: 02/2016

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SAFETY DATA SHEET

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: #1001 EPOXY INJECTION RESIN - PART B HARDENER (LV/MV/HV)

Company: CPR PRODUCT, INC.
1315 W. LARK INDUSTRIAL DR.
FENTON, MO 63026

Telephone: 636-717-0666
636-717-0665 (Fax Line)

Emergency Telephone Number: 1-800-535-5053 INFOTRAC

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No. 1272/2008

Acute Dermal Toxicity Category 4
Acute Oral Toxicity Category 4
Skin Sensitization Category 1
Skin Corrosion/Irritation Category 1B
Chronic Aquatic Toxicity Category 2

Classification according to the Regulation Directive 199/45/EC: [Xn] Harmful, [C] Corrosive, [N] Dangerous to the Environment

Information Concerning particular hazards for human and environment:

Product Description: This product is grey heavy paste with a sweet amine od

Health Hazards: Corrosive, Severe eye irritant; Respiratory Irritant, may cause skin sensitizat

Flamability Hazards: This product is flammable above it's fashpoint of 380F (195 C

Reactivity Hazards: None known

Environmental Hazards: The environmental effects of this product have not been investigated; however it is not expected to cau significant adverse effects.

Emergency Considerations: Emergency responders must wear proper personal protective equipment (and have appropriate fire suppress equipment) suitable for the situation to which they are responding.

Classification system:

This classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labeling according to Regulation (EC) no. 1272/2008:

Hazard Pictograms:



Signal Word: Danger

Hazard-determining component of labelling: Diethylenetriamine

Hazard Statements:

H302: Harmful if swallowed
H313: May be harmful in contact with skin
H317: May cause an allergic skin reaction
H335: May cause respiratory irritation

Precautionary Statements

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection.

Response Statements

P337+P313: If eye irritation persists: Get medical advice/attention.
P370+P378: In case of fire: Use appropriate media for extinction
P302+P353: IF ON SKIN: Wash with plenty of soap and water for extinction
P391: Collect spillage
P403+P235: Store in well ventilated place. Keep cool.
P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 2 - HAZARDS IDENTIFICATION (CONTINUED)

HMIS-ratings (scale 0 - 4)

CHEMICAL NAME	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

2.3 Other Hazards

None Known

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not "hazardous" per the OSHA standard.

Section 3: Hazards Identifications

Chemical Name	CAS #	OSHA PEL*	ACGIH TLV*	WT%
Fatty Amidoamine Resin Mixture	T/S	N/E	N/E	<75
Modified Aliphatic Polyamine	T/S	N/E	N/E	>25

*ALL INGREDIENTS ARE REGISTERED ON TSCA.

*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

*T/S - Trade Secret

Emergency Overview:

Mild or moderate eye irritation.
May cause skin irritation.
Harmful if swallowed.

HMIS RATING:

HEALTH-3, FLAMMABILITY-1, REACTIVITY-0
See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Potential Health Effects

Eye contact: Mild or moderate irritation, possible minor temporary cornea injury.
Skin contact: May cause skin irritation on prolonged or repeated exposure.
Skin absorption: Not considered toxic.
Inhalation: May cause nasal irritation, central nervous system depression or lung injury.
Chronic effects of over exposure: NONE

Section 4: First Aid Measures

EMERGENCY & FIRST AID PROCEDURES:

Eyes: Flush with plenty of water and get medical attention. Keep eye lids apart. Wash within 1 minute of contact for maximum results.

Skin: Promptly wipe clean with paper or cloths and wash with soap and water. Remove contaminated clothing before reuse. Attention should be paid to hair, nose and eyes.

Inhalation: In case of exposure to high concentration of vapor or mist, remove person to fresh air.

Ingestion: If large amounts are swallowed, induce vomiting. Seek medical attention. May cause burns to mouth and throat.

Primary routes of entry: Inhalation, Ingestion, skin and eye contact.

Carcinogenity: This product does not contain 0.1% or more of any substance which is listed as a carcinogen by NTP, IARC or OSHA.

Section 5: Fire Fighting Measures

Flash Point: 234 F
Test Method: Setflash Closed Cup
Lower Flammability Limit: N/A
Upper Flammable Limit: N/A
Recommended Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemicals or Fog.
Special Fire Fighting Procedures: Firefighters should wear protective goggles and self contained breathing apparatus to avoid inhalation of smoke or vapors. Remove all ignition sources.

Unusual Fire or Explosion Hazards

(conditions to avoid):

May produce hazardous fumes or hazardous decomposition products, such as carbon dioxide, carbon monoxide, hydrogen sulfide, oxides of sulfur and nitrogen.

Section 6: Accidental Release Measures

Special Protection: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred.

Steps to be taken in case of material is released or spilled:

Ventilate the area. Absorb spill with suitable absorbent material and place into a closed container. Prevent material from entering waterways. Wear protective equipment during cleanup. Use eye and skin protection.

Transport Emergency Phone Number: (INFOTRAC) 1-800-535-5053

Section 7: Handling and Storage

Handling: Harmful or irritation material. Avoid contact and avoid breathing the material
Use only in a well ventilated area.

Storage: Store in a cool, dry place.

Section 8: Exposure Control/Personal Protection

Respiratory Protection: If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self-contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910134). Not required for properly ventilation area.

Ventilation: Local exhaust and general ventilation is recommended.

Hand Protection: Nitrile Rubbers gloves.

Eye Protection: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material; Have an eye wash station available.

Skin and Body Protection: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

Section 9: Physical and Chemical Properties

Physical state: Liquid
Color: Amber
Odor: Amine Odor
Weight by gallon: 14 lbs
Solids (% by weight) 100
V.O.C. 0 g/L

Boiling range: 335 F
Melting point: N/E
Density: 1.04
Percent volatile: N/D
Vapor density (air=1): Not Volatile
Vapor pressure (mm Hg): N/E
Evaporation rate: N/A
Water miscibility: <0.1%

Section 10: Stability and Reactivity

Stability: Stable
Incompatibility: Strong oxidizers, epoxy resin, and amine mixtures especially when hot.
Hazardous polymerization: Will not occur.
Hazardous decomposition products: Oxides of Carbon and Phenolics under burning conditions
Conditions to avoid: Heat and warm storage

Section 11: Toxicological Information

Chemical Name LD50/LC50

Modified Aliphatic Polyamine Not established

Section 12: Ecological Information

Overview: No ecological information available.

Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: CORROSIVE LIQUID N.O.S.

IATA: CORROSIVE LIQUID N.O.S.

Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es): N/A

SARA Hazard Classification: SARA Title III Regulations (40 CFR 370): N/A

SARA Section 313 Listed Ingredients: This material does not contain any substance which is subject to the reporting requirements of 40 CFR 372.

DOT Proper Shipping Name: Corrosive Liquid N.O.S. (Amidoamine Resin Mixture)

UN Number: UN1760

Section 16: Other Information

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Revision Date: 02/2016