COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

P.0. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

RIDER

Permit No: **PS-0900556**
Date Issued: 03/16/2009
Exp. Date: 06/29/2009
Project No: PWP110005
Quad: NW
Extended To: 08/01/2009
UE/CR/PM NO:41016995

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - WALNUT CK.
375 N. WIGET LN.
WALNUT CREEK, CA 94598

Encroachment Type:

Bore (up to 6 inch Dia)			

Location:
VARIOUS ROADS

In compliance with your request of **03/16/2009**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

The Department of Public Works, Field Inspection Section shall receive a notice at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion provided by Grantor.

Special Comments:

Traffic Control per MUTCD
DO TO THE START OF COUNTY PROJECTS ALL WORK MUST BE DONE BY JUNE 29, 2009. (OK TO EXTEND PERMIT UNTIL 8/1/2009 PER TRUEMAN
PHILLIPS)

FORMS:

SS/WW, R-29		

Est. Permit Fee: $1,725.00

THOMAS R. FLINN, Director
Department of Public Works

By: _____

WHITE	-Permitee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection

ENCROACHMENT PERMIT

GENERAL PROVISIONS

1. This permit is issued under and subject to a11 1aws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, and 892.

2. It is understood and agreed by the Permittee that the doing of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean a condition as is possible and upon completion of the work granted herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any injury to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility of such maintenance of the encroachment structure by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Director of Public Works or his representative.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway may. require, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out so that there will be as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Barricades shall be placed, With approved Signs and lights at light, and flagmen shall be employed, all as may be required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to do the work provided for under this permit. In the event any .claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold them and each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely Stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surfacing is cut or damaged in the work of placing an encroachment structure, such material shall either be separately stored and replaced in the roadway as nearly as possible.in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as It was before the commencement of operations of placing the encroachment structure.

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12. The future safety and convenience of the traveling public shall be given every consideration in the location and type of construction.

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STOCKTON, CALIFORNIA 95201
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RIDER

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Date Issued: 03/16/2009
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Project No: PWP110005
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UE/CR/PM NO:41016995

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PHILLIPS)

FORMS:

SS/WW, R-29		

Est. Permit Fee: $1,850.00

THOMAS R. FLINN, Director
Department of Public Works

By: _____
Permit Section

WHITE	-Permitee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

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APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 2/26/09

To: San Joaquin County
Department of Public Works

PG&E / Jose Hernandez
(Applicant Name)

375 N. Wiget Ln
(Mailing Address)

Walnut Creek CA,
(City, State, Zip Code)

916-832-9154
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	730052-20	REF #	
APN		CR #	
EXP. DATE	7-15-09		
VALID		TO 7-15-09	DRIVEWAYS:
STREET	Various		*
AREA	Lodi	QUAD NW	*
TYPE	Bores		*
FORMS	WW/SS		
NOTES	approx 550 Bores		

Sketch (Detailed plans may be submitted)

See Attached Sketches

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the _____ side of _____ approximately _____ feet/mile _____ of _____, _____, by performing the following work (description of work): Drill 7/8" holes in asphalt or Concrete. Hole depth will reach subgrade. Testing the soil will follow & holes will be plugged per spec sheets attached.

Work will commence on or about June 1st for approximately 30 DAYS days.

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Jose Hernandez
Signature of Applicant - Title

2/26/09
Date

E:\PUB-SV.WK\MASTER.PS\ENCROACHMENT PERMIT APPLICATION.DOC (01/08)

Dear San Joaquin County,

Pacific Gas and Electric Company (PG&E) is planning to conduct some testing in your city. The pipeline has been in service for many years, and has continued to provide safe and reliable service to your community. PG&E is required by Federal and State regulation to perform this testing.

The testing will be performed by our Contractor Mears Cpg under our supervision. The testing involves placing a probe in contact with the ground surface and taking readings of the corrosion protection on the line, every ten feet. If the surface is soil (including grass, dirt, etc.) the reading can be taken directly and without drilling holes. However, if there is a hard surface, like asphalt or concrete a small 7/8 inch diameter hole must be drilled **just through the thickness** of the asphalt or concrete to get to soil. When drilling is required and after the "read" is taken, the hole is plugged with an approved plug and crack sealer (See attached document). This provides a waterproof repair for the small hole.

There are several miles of testing throughout your area and we are scheduling this test throughout the months of June of 2009 through August of 2009. In the event you have any questions, please feel free to contact Jose Hernandez of Pacific Gas and Electric (916) 832-9154 or David Skone (630)338-2756

Sincerely,

Jose Hernandez- Field Engineer
Pacific Gas and Electric Company

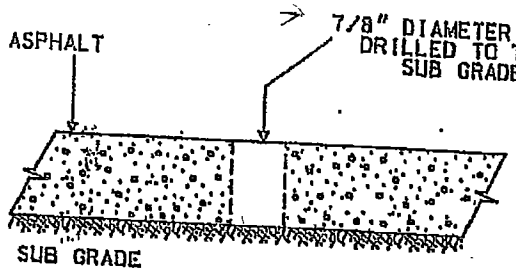

FIGURE 1: SCHEMATIC OF DRILLED HOLE

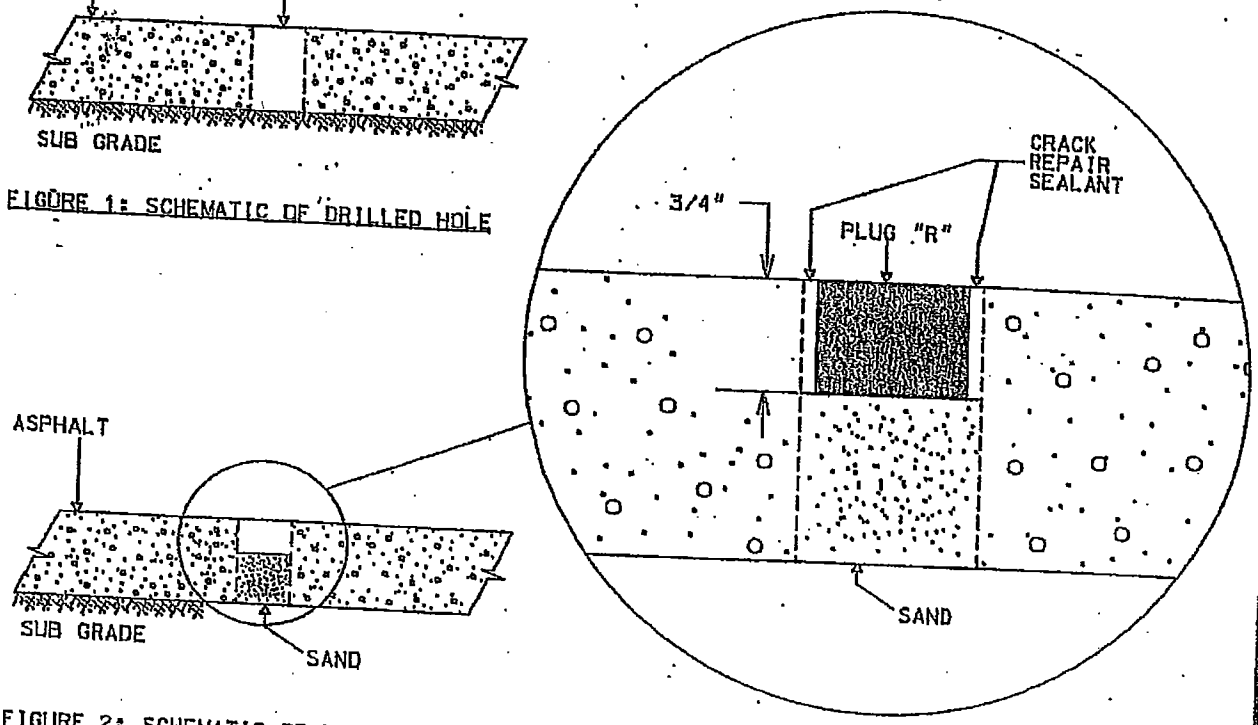

FIGURE 2: SCHEMATIC OF REPAIR AFTER TESTING

PROCEDURE FOR CORROSION TESTING ON PAVED ROADWAYS

TASK 1-DRILLING HOLES--DRILL A 7/8" HOLE THROUGH THE ASPHALT TO THE SUB GRADE. THE HOLES ARE DRILLED 10 FEET ON CENTERS OVER THE PIPELINE USING A PNEUMATIC DRILL WITH A 7/8" DRILL BIT.

TASK 2-CORROSION TESTING--A PROBE IS INSERTED INTO EACH HOLE. A PIPE TO SOILS POTENTIAL IS MEASURED AND RECORDED. THE PROBE IS REMOVED.

TASK 3- REPAIRING THE DRILLED HOLE--THE HOLES ARE FIRST FILLED WITH SAND SATURATED WITH WATER AND TAMPED WITH A 1/2" ROD TO PROVIDE A COMPACTED SOIL BASE TO 3/4" BELOW A.C. SURFACE. "RING" THE HOLES WITH CRACK REPAIR SEALANT THEN DRIVE A "PLUG-R" SOLID PLUG INTO HOLE FLUSH TO THE A.C. SURFACE. THIS MATERIAL MATCHES THE SURROUNDING ASPHALT COLOR, LEAVING LITTLE TRACE THAT A HOLE WAS EVER DRILLED AT THE LOCATION.

APPROVED BY									
		REV	DATE	DESCRIPTION	GM	DWN	CHKD	SUPV	APVD

GM		B/M	
SUPV		DWG LIST	
DSGN	KJT	SUPSDS	
DWG	KJT	SUPSD BY	
CHKD		SHEET NO OF	
O K		DRAWING NUMBER	REV
DATE 9/24/04	SCALE NONE	0800389	0
		MICROFILM	

HOLE DRILLING PROCEDURE FOR ASPHALT DURING CORROSION SURVEYS

PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

N1804

Material Safety Data Sheet
[OSHA 29 CFR 1910.1200]

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30329

Emergency Telephone Number
(770) 216-9580

Information Telephone Number
(770) 216-9580

Revision: July 2003

MSDS X

SECTION I: PRODUCT IDENTIFICATION

QUIKRETE® Product Name	Code #
GRAY CONCRETE CRACK SEAL	8640-00
LATEX BLACKTOP CRACK SEAL	8640-05

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) mg/M^3	TLV (ACGIH) mg/M^3
Acrylic Polymer	Not Hazardous	None	None
Ethylene Glycol	107-21-1	50 ppm (1)	50 ppm (1)
Limestone/Marble	1317-65-3	5	5
2,2,4-trimethyl-1,3-pentanediol-mono isobutyrate	025265-77-4	(2)	(2)
Iron Oxide Pigments	01309-37-1	5	5

(1) Limits for Vapor & Mist
(2) None Established

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Solubility in Water: Dilutable.
Physical Appearance and Odor: Gray or black viscous liquid with a slight ether and ammonia odor.
Boiling Point: ~100°C (212°F)
Freezing Point: ~ -1°C (30°F)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Unusual Hazards: This water based dispersion can splatter at temperatures above 100°C (212°F). Polymer film can burn once the water has evaporated. Product also may contain less than 1 % of a solvent with a Flash Point of 120°C (248°F)
Extinguishing Agents: Use methods appropriate for surrounding fire.
Personal Protective Equipment: For fire fighting, wear self-contained breathing apparatus and full protective gear.

SECTION V - REACTIVITY DATA

Stability: This material is considered stable. However, avoid temperatures above 177°C/350°F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.
Hazardous Decomposition Products: Thermal decomposition may yield acrylic monomers.
Hazardous Polymerization: Will not occur.
Incompatibility: Avoid contact with strong oxidizing agents or strong alkalis.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Yes
	Skin?	Yes
	Ingestion?	Yes

HEALTH EFFECTS FROM OVEREXPOSURE
Inhalation of vapor or mist can cause the following: headache - nausea - irritation of nose, throat, and lungs
Eye Contact: Direct contact with material can cause irritation and possible corneal injury.
Skin Contact: Prolonged or repeated skin contact can cause slight irritation.
FIRST AID
Skin: Thoroughly wash affected area with soap and water. Remove contaminated clothing.
Eye Contact: Flush with large amounts of water, lifting the upper and lower lids occasionally. Get medical attention.
Ingestion: If swallowed, give two glasses of water. If large amounts are ingested, induce vomiting with Ipecac syrup or by placing finger at the back of the throat. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation: Remove to fresh air if effects occur. Consult physician.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

AVOID SKIN AND EYE CONTACT AND AVOID BREATHING VAPORS.
Storage Conditions: Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 1°C/34°F. The maximum recommended storage temperature for this material is 49°C/120°F.

PERSONAL PROTECTIVE EQUIPMENT
Eye protection: Use chemical splash goggles (ANSI Z87.1 or approved equivalent)
Hand protection: Neoprene gloves are recommended. Gloves of other chemically resistant materials may not provide adequate protection.

SECTION VIII - CONTROL MEASURES

Spill and leak handling: Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Ventilation: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published

by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Other Protective Equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility.

WASTE DISPOSAL: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.

Henry.
#1 CHOICE OF PROFESSIONALS.

Material Safety Data Sheet - OSHA 174

Materials Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

HMIS RATING
Health 1
Flammability 1
Reactivity 0
Protective Equip. A

HE305 - ELASTOMERIC EMULSION CRACK FILLER

Last Rev Date: 09/15/2004

Section I

Manufacturer's Name
HENRY COMPANY

Address
HENRY COMPANY
2911 Slauson Ave
HUNTINGTON PARK, CA 90255

Emergency Telephone
800-486-1278

Primary Contact
Technical Services

NFPA
704

Telephone
800-486-1278

Email
techservices@henry.com

Preparer's Signature

Section II Hazardous Ingredients / Identity Information

Hazardous Component	CAS#	OSHA_PEL	AGGIH_TL	Other Limits	Percent
Butadiene Styrene Latex	9003.55.8	N/A	N/A		
Asphalt	8052.42.4	10 ppm	5 mg/m3	15 ppm TWA-STEL	
Water	7732.18.5	N/A	N/A		

Comments: There are no S.A.R.A. 313 ingredients in this material in excess of Deminimus amounts. "Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm."

Section III Physical / Chemical Characteristics

Boiling Point
212 F

Melting Point
N/A

Max VOC (g/l)
0

Vapor Pressure (mm Hg)
N/A

Evaporation Rate (Butyl Acetate=1)
<1

Max VOS (lbs/gal)
0

Vapor Density (Air=1)
>1

Weight Per Gallon
8.45

% Water Volume
33

Color
Black brown

Solubility in Water
Dispersible

% Water Weight
34

Odor
Petroleum and wood like

Appearance
Thick fluid

% Volatile
34

Specific Gravity
1.02

PH
10.0-11.0.

Section IV Fire and Explosion Hazard Data

Flash Point Method
N/A

Flash Point Temperature
>212°F

LEL Flammable Limit
N/A

UEL Flammable Limit
N/A

Extinguishing Media
Foam, CO2, Dry Chemical, Water Fog

Fire Fighting Procedures
Dried residue-use breathing masks

Additional Procedures
None

Unusual Fire and Explosion Hazards
Closed containers could burst due to steam generation

Section V Reactivity Data

Stability	Conditions to Avoid
Material is Stable	Avoid freezing

Incompatibility (Materials to Avoid)

Strong Oxidants

Hazardous Decompositions or Byproducts

Fumes, CO_2, Carbon Monoxide if combustion is incomplete

Hazardous Polymerization	Conditions to Avoid
May Not Occur	Contact with moisture

Section VI Health Hazard Data

Routes of Entry:

If In Eyes

Symptoms	Emergency and First Aid Procedures
– Eye irritation. – Burning of eyes. – Tearing, redness, or swelling.	– Flush gently with clean cool water and move individual away from exposure and into fresh air, consult physican.

If Ingested

Symptoms	Emergency and First Aid Procedures
– May be a health hazard if ingested in large quantities.	– Get prompt medical attention.

If Inhaled

Symptoms	Emergency and First Aid Procedures
– Dizziness, headaches, even unconsciousness or death.	– Remove from vapor immediately and if breathing is difficult, administer oxygen. – If overcome, call physician. – If breathing has stopped or is irregular, start resuscitation or administer oxygen, as needed.

If on Skin

Symptoms	Emergency and First Aid Procedures
– Possible dermatitis or allergenic reaction on repeated contact.	– Remove contaminated clothes and wash with a waterless handcleaner or soap and water. – Flush with clean cool water.

Section VII Precautions for Safe Handling and Use

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

Keep people away. Recover free liquid. Add absorbent sand, earth, sawdust, etc to spill area. Avoid breathing vapors. Ventilate confined spaces. Open all windows and doors. Keep products out of sewers and watercourses.

Waste Disposal Method:

Assure conformity with applicable disposal regulations

Precautions for Handling and Storage:

KEEP FROM FREEZING. Keep containers closed when not in use. Do not handle or store near heat or strong oxidants. Adequate ventilation required.

Other Precautions:

Avoid breathing vapors. Avoid prolonged contact with skin. Remove contaminated clothing and launder before reuse. Remove contaminated shoes and thoroughly dry before reuse. Wash skin thoroughly with soap and wter after contact.

Section VII Control Measures

Ventilation

Local Exhaust

Face velocity 60 fpm

Mechanical (General)

N/A

Special Ventilation

Use only with adequate ventilation.

Other

N/A

Protective Equipment Required

Respirator

MESA/NIOSH approved respirator where concentrated vapors are encountered.

Gloves

Chemical resistant gloves

Goggles

Splash goggles or face shield

Clothing

Chemical resistant apron

Work Hygienic Practices

Practice good work hygiene

Section IX Special Precautions for Safe Handling and Storage

Precautions for Handling and Storage

KEEP FROM FREEZING

Other Precautions

N/A

Section X Transportation Data

DOT

Non-Bulk Not Regulated (Water based material Non-bulk - PROTECT FROM FREEZING!)

IMDG

Not Regulated

IATA

Not Regulated

Bait Additions

Ingredient	CAS Number	Notes
Water	7732.18.5	See current Material Safety Data Sheet.
Asphalt	8052.42.4	A Florida Toxic Substances List material
Asphalt	8052.42.4	A Massachusetts Hazardous Substance List material
Asphalt	8052.42.4	A Minnesota Hazardous Substance List material
Asphalt	8052.42.4	A Pennsylvania Hazardous Substance List material
Asphalt	8052.42.4	A Washington State Permissible Exposure for Air Contaminants material
Asphalt	8052.42.4	Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.
Butadiene Styrene Latex	9003.55.8	See current Material Safety Data Sheet.

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The Henry Company is the parent company of Baker, Inc.
www.henry.com

Henry.
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TECHNICAL DATA SHEET

HE305 - ELASTOMERIC EMULSION CRACK FILLER

Last Rev Date: 08/09/2004

Physical Properties

Appearance Black liquid	**Flexibility (Low Temperature)** Pass (ASTM D-2939)	**Solids By Weight** >51% (ASTM D-2939-94)
Application Temperature 50° F and rising	**Freezability** Do not freeze	**Specific Gravity @ 77° F** 1.02
Brookfield Viscosity 3500-6500 cPs 2D@ 20 rpm and 77° F	**Maximum VOC** 0 calculated	**Water Resistance** Pass (ASTM D-2939)
Color Black brown	**Maximum VOS** 0 calculated	**Weight Per Gallon** 8.44-8.46 lbs (ASTM D-2939-94)
Flash Point >212° F	**pH** 10-11	**Weight Per Gallon Calculated** 8.45

Description

HE305 - ELASTOMERIC EMULSION CRACK FILLER is an asphalt based material for effectively filling cracks in asphalt pavements. **HE305 - ELASTOMERIC EMULSION CRACK FILLER** is a unique elastomer-modified asphalt base emulsion produced by incorporating the rubber polymer into the asphalt using extreme pressures and temperatures. It is formulated with additional adhesion promoting polymers to provide a tight, highly extensible and flexible, dried film with excellent resistance to water, weathering and elevated temperatures.

Features

- Fill cracks up to 1/2 inch wide in asphalt driveways.
- Provide a tight and flexible seal.
- Resist water, weather, and high temperatures.
- Be applied directly from the container.

Usage

This product is especially designed to be used straight from the container for filling cracks in driveways and parking lots which are up to 1/2" wide.

Coverage

HE305 - ELASTOMERIC EMULSION CRACK FILLER can be used to fill cracks up to 1/2" wide.

Surface Preparation

Hose or blow off loose materials, dust, and dirt from cracks. Cracks should be damp but free of standing water. Apply when temperature is at least 50°F and when rain is not likely within 24 hours. Allow sealer to dry until firm before covering with driveway sealer.

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Application

Directions:

- Invert container and shake for 1 to 2 minutes to obtain a uniform consistency.
- To use, remove cap and cut tip to 1/8" opening.
- Place spout in crack. Squeeze container to apply filler in crack.
- Fills cracks up to 3/8" wide level with the surface. For cracks between 1/8" and 1/2" wide, fill higher to allow for shrinkage. Fill deep cracks with sand until 1/4" below the top of pavement. Apply crack filler slightly below pavement surface. *Note: Filler applied above surface can cause tracking.*
- Sprinkle sand over filler to help prevent tracking during drying.
- Plug hole in filler spout when not in use.

Precautions

Avoid using when rainfall is likely within 24 hours, at temperatures below 50°F, or for cracks wider than 1/2". Let filled cracks cure at least 7 days or until firm before coating is applied or when temperature will fall below 50°F within 24 hours after application. When transporting this product, be sure the container is secured and the lid is tight. Do not allow the container to tumble as this may loosen the lid and allow leakage to occur. Do not heat container or store in temperature above 110°F.

Clean-up

Fresh coating can be removed with water. Use kerosene, paint thinner, or mineral spirits if material has started to dry. Clean hands with waterless hand cleaner. Use care in handling solvents.

Caution

CAUTION! Do not heat container or store at temperatures greater than 120° F. Close container after each use. DO NOT TAKE INTERNALLY! Use protective measures to avoid contact with eyes and skin. If swallowed, CALL PHYSICIAN IMMEDIATELY! In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION. Dispose of container and unused contents in accordance with Local, State and Federal regulations. KEEP OUT OF REACH OF CHILDREN! DO NOT ALLOW THIS PRODUCT TO FREEZE!

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

EMPLOYERS should obtain a copy of the Material Safety Data Sheet (MSDS) from your supplier or directly from Henry at the toll free number or website below.

Product Sizes

Gallon (8.98 lb) 5 Gallon (45.35 lb)

Limited Warranty

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product--such as weather, workmanship, equipment utilized, and prior condition of the substrate--are beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES:** The Limited Warranty is IN LIEU OF any other warranties express or implied including but not limited to any implied warranty of MERCHANTABILITY or fitness for a particular purpose; and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.

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Material Safety Data Sheet - OSHA 174

Materials Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

HE308 - ELASTOMERIC CRACK REPAIR

HMIS RATING
Health 0
Flammability 0
Reactivity 0
Protective Equip. E

Last Rev Date: 09/15/2004

Section I

Manufacturer's Name
HENRY COMPANY

Address
HENRY COMPANY
2911 Slauson Ave
HUNTINGTON PARK, CA 90255

Emergency Telephone
800-486-1278

Primary Contact
Technical Services

NFPA
704

Telephone
800-486-1278

Email
techservices@henry.com

Preparer's Signature

Section II Hazardous Ingredients / Identity Information

Hazardous Component	CAS#	OSHA_PEL	AGGIH_TL	Other Limits	Percent
Clay, Secco/Dixie/Afton/Kaolin	1332.58.7	0.5 mg/m3	0.5 mg/m3		
Latex Polymer (115)	25053.30.9	N/A	N/A		
Wood Rosin Derivative	8050.09.7	N/A	N/A		
Asphalt	8052.42.4	10 ppm	5 mg/m3	15 ppm TWA-STEL	
Biocide (95)	56709.13.8	N/A	N/A		
Potassium Hydroxide	1310.58.3		2mg/m3		
Water	7732.18.5	N/A	N/A		

Comments: There are no S.A.R.A. 313 ingredients in this material in excess of Deminimus amounts. "Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm."

Section III Physical / Chemical Characteristics

Boiling Point
212F

Vapor Pressure (mm Hg)
760@ 212F

Vapor Density (Air=1)
>1

Color
Black

Odor
Petroleum and wood like

Specific Gravity
1.61

Melting Point
N/A

Evaporation Rate (Butyl Acetate=1)
<1

Weight Per Gallon
13.4

Solubility in Water
Dispersible

Appearance
Black fluid

PH
N/A

Max VOC (g/l)
50

Max VOS (lbs/gal)
0.41

% Water Volume
29.7

% Water Weight
18.4

% Volatile
18.4

Section IV Fire and Explosion Hazard Data

Flash Point Method	Flash Point Temperature	LEL Flammable Limit	UEL Flammable Limit
N/A	>212°F	N/A	N/A

Extinguishing Media

Foam, CO2, Dry Chemical, Water Fog

Fire Fighting Procedures

Firemen should wear MSHA/NIOSH approved self-contained apparatus to protect against inhalation of combustion products.

Additional Procedures

None

Unusual Fire and Explosion Hazards

Closed containers could burst due to steam generation

Section V Reactivity Data

Stability	Conditions to Avoid
Material Is Stable	Avoid freezing

Incompatibility (Materials to Avoid)

Strong Oxidants

Hazardous Decompositions or Byproducts

Fumes, Smoke, CO2, Carbon Monoxide if combustion is incomplete

Hazardous Polymerization	Conditions to Avoid
May Not Occur	N/A

Section VI Health Hazard Data

Routes of Entry:

If In Eyes

Symptoms	Emergency and First Aid Procedures
– Eye irritation. – Burning of eyes. – Tearing, redness, or swelling.	– Flush gently with clean cool water and move individual away from exposure and into fresh air, consult physican.

If Ingested

Symptoms	Emergency and First Aid Procedures
– May be a health hazard if ingested in large quantities.	– Get prompt medical attention.

If Inhaled

Symptoms	Emergency and First Aid Procedures
– Dizziness, headaches, even unconsciousness or death.	– Remove from vapor immediately and if breathing is difficult, administer oxygen. – If overcome, call physician. – If breathing has stopped or is irregular, start resuscitation or administer oxygen, as needed.

If on Skin

Symptoms	Emergency and First Aid Procedures
– Possible dermatitis or allergenic reaction on repeated contact.	– Remove contaminated clothes and wash with a waterless handcleaner or soap and water. – Flush with clean cool water.

Section VI Precautions for Safe Handling and Use

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

Keep people away. Recover free liquid. Add absorbent sand, earth, sawdust, etc to spill area. Avoid breathing vapors. Ventilate confined spaces. Open all windows and doors. Keep products out of sewers and watercourses.

Waste Disposal Method:

Assure conformity with applicable disposal regulations

Precautions for Handling and Storage:

KEEP FROM FREEZING. Keep containers closed when not in use. Do not handle or store near heat or strong oxidants. Adequate ventilation required.

Other Precautions:

Avoid breathing vapors, prolonged or repeated contact with skin. Remove contaminated clothing and launder before reuse. Remove contaminated shoes and thoroughly dry before reuse. Wash skin thoroughly with soap and water after contact.

Section VII Control Measures

Ventilation

Local Exhaust

N/A

Mechanical (General)

N/A

Special Ventilation

Use only with adequate ventilation.

Other

N/A

Protective Equipment Required

Respirator

Use with adequate ventilation.

Gloves

Chemical resistant gloves

Goggles

Wear eye protection

Clothing

Other clothing to avoid repeated skin contact

Work Hygienic Practices

Practice good work hygiene

Section IX Special Precautions for Safe Handling and Storage

Precautions for Handling and Storage

KEEP FROM FREEZING

Other Precautions

N/A

Section X Transportation Data

DOT

Non-Bulk Not Regulated (Water based material Non-bulk - PROTECT FROM FREEZING!)

IMDG

Not Regulated

IATA

Not Regulated

State Addendum

Ingredient	CAS Number	Notes
Potassium Hydroxide	1310.58.3	A Delaware Air Quality Management List material.
Clay, Secco/Dixie/Afton/Kaolin	1332.58.7	A Minnesota Hazardous Substance List material
Clay, Secco/Dixie/Afton/Kaolin	1332.58.7	A Pennsylvania Hazardous Substance List material
Latex Polymer (115)	25053.30.9	See current Material Safety Data Sheet.
Water	7732.18.5	See current Material Safety Data Sheet.
Wood Rosin Derivative	8050.09.7	A Minnesota Hazardous Substance List material
Asphalt	8052.42.4	A Washington State Permissible Exposure for Air Contaminants material
Asphalt	8052.42.4	A Florida Toxic Substances List material
Asphalt	8052.42.4	A Massachusetts Hazardous Substance List material
Asphalt	8052.42.4	A Minnesota Hazardous Substance List material
Asphalt	8052.42.4	A Pennsylvania Hazardous Substance List material
Asphalt	8052.42.4	Asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

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TECHNICAL DATA SHEET

HE308 - ELASTOMERIC CRACK REPAIR

Last Rev Date: 08/08/2004

Physical Properties

Appearance Black thick paste	**Flash Point** >212° F.	**Solids By Weight** 84%
Application Temperature 50° F. and rising	**Freezability** Do not freeze	**Specific Gravity @ 77° F** 1.25
Brookfield Viscosity 40,000 cPs @ 20 rpm	**Maximum VOC** 50 g/l	**Weight Per Gallon** 10.2 - 10.6 lbs
Color Black	**Maximum VOS** 0.41 lbs/gal	**Weight Per Gallon Calculated** 10.4 lbs
Drying Time @ 50% RH 1 hr to touch		

Description

HE308 - ELASTOMERIC CRACK REPAIR is a cartridge material used in filling cracks in driveway, walks, parking lots, and other asphalt based pavement material.

Usage

FEATURES:

- Superior long-lasting adhesion.
- Won't become brittle or shrink.
- Fills cracks up to 1/2" wide.
- Holds strong under weather extremes.
- Easy-to-use application & clean up.
- Specially formulated asphalt emulsion filler compound to prevent dampaging water entering cracks in asphalt pavement.
- Dries to touch in 1 hour with a jet black finish (under ideal drying conditions).

USES:

- Filling and sealing cracks up to 1/2" wide on asphalt pavements such as driveways and walks.
- Repairing cracks before topcoating surface with all types of driveway sealers.

Coverage

HE308 - ELASTOMERIC CRACK REPAIR fills a crack 1 inch deep and the following widths:

- 1/4" wide and 79" long.
- 3/8" wide and 53" long.
- 1/2" wide and 39" long.

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Surface Preparation

Cracks should be free of any loose materials, grass, or weeds. If the crack is more than 1" deep, fill the crack with clean sand to within 1" of the surface. There should not be standing water in the crack before application.

Application

Apply when temperature is at least 50° F. and rising and when rain or frost is not likely within 24 hours. For best results, crack should be damp, but free of standing water. To prepare the cartridge for application, trim tip to desired thickness of bead. Punch a large hole in the seal at end of spout and place in cradle-type caulking gun. Squeeze trigger slowly forcing filler into cracks and fill to ground level. Smooth bead with a clean putty knife. Allow Crack Repair to dry at least 24 hours in good weather before topcoating surface.

Cleanup

Clean hands and tools immediately after use with soap and water. Use paint thinner on dried materials.

Caution

CAUTION:

CAUTION! Do not heat container or store at temperatures greater than 120° F. Close container after each use. DO NOT TAKE INTERNALLY! Use protective measures to avoid contact with eyes and skin. If swallowed, CALL PHYSICIAN IMMEDIATELY! **In case of eye contact**, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION. **KEEP OUT OF REACH OF CHILDREN! DO NOT ALLOW THIS PRODUCT TO FREEZE!**

WARNING:

This product contains detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

EMPLOYERS should obtain a copy of the Material Safety Data Sheet (MSDS) from your supplier or directly from Henry at the toll free number or website below.

Product Sizes

11 oz Cartridge (1.17 lb)

Limited Warranty

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product--such as weather, workmanship, equipment utilized, and prior condition of the substrate--are beyond our control. We will replace at no charge any product proved to be defective within 3 years of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES:** The **Limited Warranty** is **IN LIEU OF** any other warranties express or implied including but not limited to any implied warranty of **MERCHANTABILITY** or fitness for a particular purpose; and we, the manufacturer, shall have no further liability of any kind including liability for consequential or incidental damages resulting from any defects or any delays caused by replacement or otherwise.

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