



PILGRIM **EM 5-2 GEL** is a 100% solid, two-component high strength gelled epoxy adhesive. Non-sag consistency for overhead patching, gap-filling, joining irregular shaped materials; and as a binder in epoxy mortars. Moisture insensitive: May be used on dry, damp or wet surfaces.

USES: Concrete construction

Bridges Culverts

New to old concrete

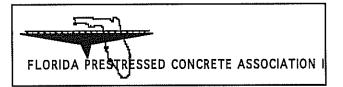
Crack repair

**Tanks** 

Adhesive for: wood, steel, fiberglas

Grout bolts and dowels

Florida DOT TYPE A,B,F1 Louisiana DOT TYPE I,II,III C ASTM C-881, Georgia Type 111 Tennessee DOT List 8 & 22



## **TEST PROPERTIES:**

CONSISTENCY: sag, in.	0.0
DEFLECTION TEMPERATURE	121 F
GEL TIME, min., 77°F	30
WATER ABSORPTION, %	0.2
COMPRESSIVE STRENGTH,psi 24 hr.	6700
DIRECT TENSILE STRENGTH,psi	650+
DIAGONAL SHEAR STRENGTH,psi	6365+

**POT LIFE:** 20-35 minutes at 72° F.

CAUTION: Pot life is dependent upon material temperature and quantity mixed. The greater the mass the shorter the pot life. Mix only that quantity that can be applied within its pot life.

COVERAGE: 1 gallon neat - 231 cu. in. (see chart over)

1 gallon mixed A & B with 2 gallons aggregate

yields approx. 462 cu. in. of grout.

**PACKAGING:** 2-gallon, 10 gallon, and 300 and 600 milliliter cartridges. Refer to data sheet on EM 5-2 GEL Cartridge System for complete information.







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sheet on EM 5-2 GEL Cartridge System for complete information.

# **EM 5-2 GEL COVERAGES**

Thickness	Coverage / gallon
(1000 mils = 1in.)	No aggregate
1/4" = 250 mils	6.4 sq. ft.
3/16" = 187.50	8.5 sq. ft.
1/8" = 125 mils	12.8 sq. ft.
100 mils	16.0 sq. ft.

Yield: Lineal feet per gallon Joint height & width in inches

	1/4	1/2	3/4	1
1/4	308			_
1/2	154	_ 77		
3/4	102	51	34	
1	77	38	25	19

LIMITATIONS: Do not thin EM 5-2 GEL. Solvent will prevent proper cure.

**MIXING:** Combine A component with B component at the ratio of 1 to 1 by volume. Mix for approximately 3 minutes with a Jiffy mixer (or equivalent) on a low speed (400-600 rpm) drill until uniform color and consistency is obtained. PILGRIM EM 5-2 GEL is designed for application both neat and as a mortar. Proportion of aggregate to mixed epoxy varies with proposed end use - do not exceed 3 parts aggregate to 1 part mixed EM 5-2 GEL.

CAUTION —Aggregate must be oven dried to avoid encapsulation of moisture.

VISCOSITY: Thixotropic gel

COLOR: Gray (mixed)

MIX RATIO: 1:1 (A:B) by volume

**PREPARATION:** Clean substrate, remove laitance, curing compounds, other coatings, oil, grease, rust, waxes, and other bond-inhibiting substances. All surfaces must be clean sound, and free of surface water. Clean by mechanical abrasion methods such as sandblasting. Concrete may be damp or dry.

**LIMITATIONS:** Pilgrim EM 5-2 GEL produces a vapor barrier. Do not apply to surfaces where transmitted vapor can condense and freeze under adhesive. Minimum application temperature 40°F.

CLEAN-UP: Clean tools and equipment with Pilgrim #5 Cleaner to remove uncured material.

**STORAGE:** Store inside in tightly closed containers at moderate temperatures; avoid overheating and freezing. Opened containers should be sealed as soon as possible to prevent moisture contamination. Shelf life is two years in original packaging.

# HANDLING PRECAUTIONS:

For Industrial Use Only! Warning! May produce skin irritation and on prolonged contact may cause serious skin dermatitis. Skin contact should be avoided by use of protective clothing such as rubber gloves and eye protection. Any skin coming in contact with resin should be washed thoroughly with soap and water. Eye contact should be avoided; should it occur, flush thoroughly with water for at least 15 minutes.

WEAR PROTECTIVE CLOTHING, GOGGLES, GLOVES, AND/OR BARRIER CREAMS. Consult Material Safety Data Sheets.

PILGRIM WARRANTS ITS PRODUCTS TO BE FREE OF MANUFACTURING DEFECTS AND THAT THEY WILL MEET PILGRIM'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED WITH PILGRIM'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND PILGRIM STANDARDS. THERE ARE NO OTHER WARRANTIES BY PILGRIM OF ANY NATURE WHATSOEVER, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IN CONNECTION WITH THIS PRODUCT. PILGRIM SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING REMOTE OR CONSEQUENTIAL DAMAGES, RESULTING FROM ANY CLAIMED BREACH OF ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER.

#### MATERIAL SAFETY DATA SHEET

PILGRIM PERMOCOAT, INC. 402 S. 22ND ST. TAMPA, FLORIDA 33605 PILGRIM CODE-ANT ISSUE DATE-11/16/87 REVISED-7/17/2000

A. TRADE NAME - EM 5-2 GEL, A COMPONENT CHEMICAL NAME - EPOXY FORMULATION

FORMULA - PROPRIETARY

EMERGENCY CONTACT - ROBERT FORLONG

CAS# - MIXTURE DOT CLASS - NOT REGULATED HMIS: H-1, F-1, R-0 MOLECULAR WEIGHT - NA

DAY PHONE - 813-248-3328 NIGHT PHONE - 813-737-2236

## B. FIRST AID MEASURES

EYES - IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING LIDS APART. CALL A PHYSICIAN.

**SKIN -** WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS AND PERSISTS, SEE A PHYSICIAN. WASH CLOTHES BEFORE REUSE.

INHALATION - REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN, CALL A PHYSICIAN!

INGESTION - MAY CAUSE GASTROINTESTINAL DISTRESS, IRRITATION ULCERATION. DRINK LARGE QUANTITIES OF WATER. CONSULT A PHYSICIAN.

#### C. HAZARDS INFORMATION

#### FIRE AND EXPLOSION

FLASH POINT - 490°F

AUTO IGNITION TEMPERATURE - NA

UNUSUAL FIRE AND EXPLOSION HAZARDS - DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

**HEALTH** 

INHALATION - IRRITATION, SENSITIZATION AND DERMATITIS.

**INGESTION** - MAY CAUSE GASTROINTESTINAL DISTRESS OR IRRITATION.

**SKIN** - PROLONGED AND REPEATED CONTACT MAY CAUSE IRRITATION AND RESULT IN SENSITIZATION AND ALLERGIC REACTION.

EYES - VAPOR MAY CAUSE IRRITATION, REDNESS AND TEARING. LIQUID MAY CAUSE SEVERE IRRITATION WITH POSSIBLE IRREVERSIBLE INJURY.

UNUSUAL CHRONIC TOXICITY - NONE KNOWN.

PERMISSIBLE CONCENTRATION (AIR) - NOT KNOWN

#### D. PRECAUTIONS/PROCEDURES

**VENTILATION** - GOOD MECHANICAL VENTILATION AND LOCAL EXHAUST

NORMAL HANDLING - DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT BREATH VAPORS. KEEP CONTAINERS CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. STORAGE - STORE IN A COOL, DRY AREA AWAY FROM HEAT, STRONG OXIDIZERS. PROTECT FROM DAMAGE

SPILL OR LEAK - ABSORB SPILL ON SAND, EARTH OR VERMICULITE.

CAREFULLY COLLECT INTO CLOSED CONTAINERS FOR DISPOSAL ACCORDING TO FEDERAL, STATE OR LOCAL REGULATIONS.

FIRE EXTINGUISHING PRECAUTIONS - WEAR FULL PROTECTIVE GEAR AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS.

FIRE EXTINGUISHING AGENTS TO AVOID - SOLID STREAM OF WATER OR FOAM MAY CAUSE FROTHING, SPLATTERING AND SPREAD HAZARD.

SPECIAL PRECAUTIONS/PROCEDURES - COOL CONTAINERS EXPOSED TO FLAME WITH WATER SPRAY.

#### E. PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY EQUIPMENT** - ORGANIC CHEMICAL CARTRIDGE RESPIRATOR, IF NEEDED. **EYES** - CHEMICAL SPLASH - PROOF GOGGLES.

HANDS, ARMS AND BODY - RUBBER OR POLYETHYLENE GLOVES AND FULL BODY COVERING CLOTHING. OTHER CLOTHING AND EQUIPMENT - EYE WASH FOUNTAIN AND SAFETY SHOWER.

# F. PHYSICAL DATA

DESCRIPTION - DIGLYCIDYL ETHER RESIN BOILING POINT - >200°F VAPOR DENSITY - NA SOLUBILITY IN WATER - NONE EVAPORATION RATE - NIL

SPECIFIC GRAVITY - 0.1.3 VAPOR PRESSURE - CA. 1 MM HG AT 180C PH - NA % VOLATILES (BY VOLUME) - NIL

#### G. REACTIVITY DATA

STABILITY - STABLE

INCOMPATIBLE MATERIALS - STRONG OXIDIZERS, ACIDS AND EPOXY CURING AGENTS. HAZARDOUS DECOMPOSITION PRODUCTS - CO, CO2, NOT AS A RESULT OF THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR.

# H. HAZARDOUS INGREDIENTS (MIXTURES)

INGREDIENTS	PERCENTAGE	CAS#	TLV
EPOXY RESIN	>70%	25068-38-6	NE
CELLULOSE	<2%	9004-34-6	NE
FLY ASH	<10%	13983-17-0	10 MG/M3
TIO2	<2%	13463-67-7	10 MG/CU.M.
SILICA	<10%	14808-60-7	0.1 MG/M3
AMMONIUM BENTONITE	5%	NA	NA
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## I. ENVIRONMENTAL

**BIODEGRADABILITY** - NOT KNOWN

WASTE DISPOSAL METHODS - DISPOSE OF AS HAZARDOUS WASTE IN APPROVED WASTE DISPOSAL FACILITIES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

#### J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES - ACGIHTWA, TLV, AND STEL REGULATORY STANDARDS - TITLE 49 CFR SECTION 173.118, 172.101 GENERAL - NIOSH GUIDE TO CHEMICALS

# K. ADDITIONAL INFORMATION

**EMPTY CONTAINER HANDLING!** 

WARNING! EMPTIED CONTAINER RETAINS PRODUCT RESIDUE AND VAPORS. OBSERVE ALL LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. DO NOT CUT, DRILL, GRIND, OR WELD ON OR NEAR CONTAINER.

## L. SHIPPING INFORMATION

NOT REGULATED UNDER CURRENT DOT, IMO OR ICO REGULATIONS

INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. HOWEVER, IT IS PROVIDED SOLELY FOR THE CUSTOMERS CONSIDERATION, INVESTIGATION AND VERIFICATION. PILGRIM PERMOCOAT INC. HEREBY SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE ACCURACY AND COMPLETENESS OF SUCH INFORMATION, AND MAKES NO REPRESENTATIONS WITH RESPECT THERETO.

## MATERIAL SAFETY DATA SHEET

PILGRIM PERMOCOAT, INC. 402 S. 22ND ST. TAMPA, FLORIDA 33605

PILGRIM CODE-BOAT ISSUE DATE-11/16/87 REVISED-7/18/2000

A. TRADE NAME - EM 5-2 GEL, B COMPONENT

CHEMICAL NAME - AMIDO AMINE

FORMULA - COMPLEX POLYMER

EMERGENCY CONTACT - ROBERT FORLONG

CAS# - NONE **DOT CLASS - CORROSIVE** HMIS: H-2, F-1, R-0 MOLECULAR WEIGHT - NA

DAY PHONE - 813-248-3328 NIGHT PHONE - 813-737-2236

#### B. FIRST AID MEASURES

EYES - IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING LIDS APART. CALL A PHYSICIAN.

SKIN - WASH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS AND PERSISTS, SEE A PHYSICIAN. WASH CLOTHES BEFORE REUSE.

INHALATION - REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN!

INGESTION - MAY CAUSE GASTROINTESTINAL DISTRESS, IRRITATION ULCERATION. DRINK LARGE QUANTITIES OF WATER. CONSULT A PHYSICIAN.

# C. HAZARDS INFORMATION

# FIRE AND EXPLOSION

FLASH POINT -100°C AUTO IGNITION TEMPERATURE - NA

FLAMMABLE LIMITS: LOWER - NA UPPER - NA

UNUSUAL FIRE AND EXPLOSION HAZARDS - NONE KNOWN

HEALTH

INHALATION - VAPORS MAY IRRITATE NOSE AND UPPER RESPIRATORY TRACT.

INGESTION - MAY CAUSE GASTROINTESTINAL DISTRESS OR IRRITATION.

SKIN - PROLONGED AND REPEATED CONTACT MAY CAUSE IRRITATION AND RESULT IN SENSITIZATION AND ALLERGIC REACTION.

EYES - VAPOR MAY CAUSE IRRITATION, REDNESS AND TEARING. LIQUID MAY CAUSE SEVERE IRRITATION WITH POSSIBLE IRREVERSIBLE INJURY.

UNUSUAL CHRONIC TOXICITY - NONE KNOWN.

PERMISSIBLE CONCENTRATION (AIR) - NOT ESTABLISHED.

#### D. PRECAUTIONS/PROCEDURES

VENTILATION - GOOD MECHANICAL VENTILATION AND LOCAL EXHAUST

NORMAL HANDLING - DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT BREATH VAPORS. KEEP CONTAINERS CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. STORAGE - STORE IN COOL, DRY AREA AWAY FROM HEAT, STRONG OXIDIZERS. PROTECT FROM DAMAGE SPILL OR LEAK - ABSORB SPILL ON SAND, EARTH OR VERMICULITE.

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FIRE EXTINGUISHING AGENTS TO AVOID - SOLID STREAM OF WATER OR FOAM MAY CAUSE FROTHING, SPLATTERING AND SPREAD HAZARD.

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#### E. PERSONAL PROTECTIVE EQUIPMENT

<u>RESPIRATORY EQUIPMENT</u> - ORGANIC CHEMICAL CARTRIDGE RESPIRATOR, IF NEEDED.

EYES - CHEMICAL SPLASH - PROOF GOGGLES.

HANDS, ARMS AND BODY - RUBBER OR POLYETHYLENE GLOVES AND FULL BODY COVERING CLOTHING.

OTHER CLOTHING AND EQUIPMENT - EYE WASH FOUNTAIN AND SAFETY SHOWER.

#### F. PHYSICAL DATA

**DESCRIPTION** - AMBER LIQUID WITH AMINE ODOR.

**BOILING POINT - DECOMPOSES** 

**VAPOR DENSITY - NA** 

SOLUBILITY IN WATER - NA

**EVAPORATION RATE - NIL** 

SPECIFIC GRAVITY - 0.905

VAPOR PRESSURE - NA

PH - NA

% VOLATILES (BY VOLUME) - NIL

# G. REACTIVITY DATA

STABILITY - STABLE

INCOMPATIBLE MATERIALS - STRONG OXIDIZERS, ACIDS AND EPOXY RESINS.

HAZARDOUS DECOMPOSITION PRODUCTS - CO, CO2, NOT AS A RESULT OF THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION - WILL NOT OCCUR.

# H. HAZARDOUS INGREDIENTS (MIXTURES)

INGREDIENTS	PERCENTAGE	CAS#	TLV
AMIDO AMINE	>70%	68910-93-0	ΝE
CELLULOSE	<2%	9004-34-6	NE
FLY ASH	<10%	13983-17-0	10 MG/M3
TIO2	<2%	13463-67-7	10 MG/CU.M.
SILICA	<10%	14808-60-7	0.1 MG/M3
AMMONIUM BENTONITE	5%	NA	NA

## I. ENVIRONMENTAL

**BIODEGRADABILITY** - NOT KNOWN

WASTE DISPOSAL METHODS - DISPOSE OF AS HAZARDOUS WASTE IN APPROVED WASTE DISPOSAL FACILITIES IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

#### J. REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES - NA
REGULATORY STANDARDS - NA
GENERAL - NIOSH GUIDE TO CHEMICALS

# **K. TRANSPORTATION INFORMATION**

CORROSIVE LIQUID, N.O.S. (POLYALKYLAMINES) 8, UN 1760, III

# I. ADDITIONAL INFORMATION

EMPTY CONTAINER HANDLING!

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# **ENVIRONMENTAL DATA**

COMPONEI COM	YAMIDOAMINE  BS) EHS TPO	SAR/ Q (LBS) SI*2)	CAS MIX A TITLE SEC 313 (*3)	COMPOSITION S NUMBER CTURE  III INFORMATION  313 CATEGORY  (*4)	100 311/312 CATEGORIE (*5) H-1
COMPONEI COM	YAMIDOAMINE  BS) EHS TPO  (*	SARA Q (LBS) SI *2)	CAS MIX  A TITLE  SEC 313 (*3)	S NUMBER  CTURE  III INFORMATION  313 CATEGORY  (*4)	PERCENT  100  311/312 CATEGORIE (*5)  H-1
ODIFIED POL	YAMIDOAMINE  BS) EHS TPO  (*  QUANTITY OF EX	SAR/ Q (LBS) S *2)	MIX  A TITLE SEC 313  (*3)	III INFORMATION 313 CATEGORY (*4)	100 311/312 CATEGORIE (*5) H-1
EHS RQ (LI (*1)	BS) EHS TPO (*	SARA Q (LBS) SI *2)	A TITLE SEC 313 (*3)	313 CATEGORY (*4)	311/312 CATEGORIE (*5) H-1
(*1)	(* QUANTITY OF EX	*2) FOOT	(*3)  TNOTES-	(*4)	(*5) H-1
PORTABLE	QUANTITY OF EX				
PORTABLE	QUANTITY OF EX				
IEALTH PHYSICAL	P-3 = FIRE HAZAF P-5 = REACTIVE	E (ACUTE) HEARD HAZARD	ALTH HAZ P-4	ARD H-2 = DELAYE = SUDDEN RELEAS	D (CHRONIC) HEALTH HA BE OF PRESSURE HAZARI
OUT OF SURF DRITIES IF AN COMPREHEN ERFUND") RE	FACE WATERS, SE Y EXPOSURE TO T SIVE ENVIRONME LEASES TO AIR, L	EWERS, AND W THE GENERAL ENTAL RESPO AND OR WATI	WATERWAY L PUBLIC OI DNSE, COMI ER MAY BE	YS ENTERING OR LEAR ENVIRONMENT OC PENSATION AND LIA REPORTABLE TO T	ADING TO SURFACE WATE CURS OR IS LIKELY TO OC BILITY ACT. UNDER EPA-C THE NATIONAL RESPONSE
OI OF CC EF	JT OF SURF RITIES IF AN' OMPREHEN RFUND") REI -8802 (CIRC	DN III  JT OF SURFACE WATERS, SERITIES IF ANY EXPOSURE TO DEPENDENT OF THE PROPERTY OF THE PRO	DN III ENV  JT OF SURFACE WATERS, SEWERS, AND V RITIES IF ANY EXPOSURE TO THE GENERAL  DMPREHENSIVE ENVIRONMENTAL RESPONDING*  RFUND") RELEASES TO AIR, LAND OR WAT  -8802 (CIRCUMSTANCES SURROUNDING*  DN IV RCF	UT OF SURFACE WATERS, SEWERS, AND WATERWAY RITIES IF ANY EXPOSURE TO THE GENERAL PUBLIC O DMPREHENSIVE ENVIRONMENTAL RESPONSE, COM RFUND") RELEASES TO AIR, LAND OR WATER MAY BI -8802 (CIRCUMSTANCES SURROUNDING THE RELEA	ENVIRONMENTAL RELEASE IN  JT OF SURFACE WATERS, SEWERS, AND WATERWAYS ENTERING OR LEA  RITIES IF ANY EXPOSURE TO THE GENERAL PUBLIC OR ENVIRONMENT OC  DMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIA  RFUND") RELEASES TO AIR, LAND OR WATER MAY BE REPORTABLE TO T  8802 (CIRCUMSTANCES SURROUNDING THE RELEASE AND CLEANUP I