



The Chemical Company

PRODUCT DATA

3 03 01 30 Maintenance of Cast-In-Place Concrete

HYDROCOTE® 3061-I

Marine epoxy paste for the APE (Advanced Pile Encapsulation) System

Description

HYDROCOTE® 3061-I two component, epoxy paste adhesive is designed to be applied to surfaces and pumped into deep voids and cracks above and below the waterline.

Yield

	THICKNESS COVERAGE
1/16 inch (1.5 mm)	51.2 ft ² /2 gal unit (2.38 m ² /L)
1/8 inch (3 mm)	25.6 ft ² /2 gal unit (1.18 m ² /L)
1/4 inch (6.4 mm)	12.8 ft ² /2 gal unit (0.60 m ² /L)

Packaging

HYDROCOTE® 3061-I epoxy paste adhesive is packaged in 2 US gallon (7.6 L) units

Color

Grey

Shelf Life

18 months properly stored in unopened containers

Storage

Store in a cool, dry place (50 to 90° F [10 to 32°C]) away from direct sunlight, flame, or other hazards

Features

- Marine grade adhesive
- Excellent handling
- Suitable for low temperature application

Benefits

- Will adhere to wood, concrete or steel, above or below water line
- Can be glove applied, hand troweled or pumped
- Cures down to 40° F (4° C)

Where to Use

APPLICATION

- Patching spalls
- Bonding and anchoring to concrete, steel and other rigid materials
- Coating for steel to prevent corrosion
- Pumping into voids and joints
- Sealing seams in FRP jackets and forms (Used with APE process as seam and gasket adhesive)
- Surface seal for crack injection

LOCATION

- Piers
- Bridges
- Offshore structures
- Dams
- Sea walls

SUBSTRATE

- Concrete
- Steel
- Timber

How to Apply

Surface Preparation

CONCRETE SURFACES:

1. New concrete must be fully cured (28 days minimum) before application of HYDROCOTE® 3061-I epoxy paste adhesive. The substrate must be clean and sound.
2. Remove all marine growth, paint, grease, oil or other contaminants by sandblasting, waterblasting or rotary abrading. Create an anchor profile, if possible.

STEEL SURFACES

1. Steel surfaces must be cleaned to meet SSPC-SP6-63, "No. 6 Commercial Blast Cleaning."

WOOD SURFACES

1. Remove all marine growth, paint, grease, oil and other contaminants by sandblasting, waterblasting or rotary abrading. Remove unsound wood.



Physical Properties

PLASTIC PROPERTIES

PROPERTY	REQUIREMENT
Mix Ratio, by volume	1:1
Gel Time, 50 Minutes	200 g

HARDNER PROPERTIES

PROPERTY	REQUIREMENT
Slant Shear Bond Strength	3000 psi (20.7 MPa) (ASTM C 882) 28 days
Compressive Strength	9000 psi (62.1 MPa) (ASTM C 579) 7 days
Tensile Strength	2250 psi (15.5 MPa) (ASTM D 638) 7 days
Water Absorption	0.0035% (ASTM C 570) 24 hours
Length Change	-0.0037(ASTM C 531) 14 days

Results were obtained when material was mixed and cured at 73° F (22° C). Reasonable variations can be expected depending on application methods, test methods and curing conditions.

Mixing

HAND MIXING

1. Mix only the amount of paste that can be placed within the specified pot life. (Higher temperatures shorten pot life).
2. Place equal parts of A and B on a flat disposable palette (i.e. sheet' of cardboard) and mix with a flat bladed scraper or trowel. Mix until all evidence of the original white and black colors have disappeared and a uniform grey color is achieved.
3. Mixed paste may be placed into disposable cartridges for use with hand or powered caulking tools.

MECHANICAL MIXING

1. If plural component equipment is used to mix and place HYDROCOTE® 3061-I epoxy paste adhesive, place equal amounts of A and B in the appropriate hoppers of the equipment.
2. If placement is delayed for periods greater than 10 minutes, purge the static mixer or replace the mixer element, if necessary.

Application

1. When applied to surface under the waterline, it is necessary to "work" the paste on to the surface, being careful not to entrap water between the paste and the surface.
2. When used to cover cracks, work paste into one end of crack and progress along crack to other end, displacing water from the crack. Smooth outer surface with glove or trowel.
3. When used to anchor embedded items, spread evenly over surface of embedded item and inject additional paste into cavity. Using caulking tool or plural component equipment with sufficient nozzle length to reach base of cavity.
4. Push embedded item into cavity, displacing any water or air in surface of paste with glove or trowel.
5. If outer surface is vertical, it may be necessary to provide a temporary dam of plumber's putty or other support, to prevent the paste from sagging.

SUPPORTED PASTE

1. HYDROCOTE® 3061-I epoxy paste adhesive may be applied to surfaces under the waterline, using a fabric support.
2. The paste is spread onto glass fiber mat or mesh to provide a film thickness of 1/8 to 1/4 inch (3 mm to 6 mm). The coated fabric is worked against the surface, with care taken to prevent entrapment of water or air bubbles between the surface and the fabric.
3. Some of the paste must be forced through the fabric to thoroughly embed the fabric.
4. Additional paste may be applied to the outside of the fabric, if necessary. Smooth the outside surface of the paste and feather edges with a gloved hand.

Clean Up

Mixed epoxy is much easier to clean up before it hardens-solvents such as acetone, methyl ethyl ketone (MEK) and toluene may be used. Commercial epoxy strippers are recommended for hardened epoxy. Consult solvent manufacturers usage recommendation.

For Best Performance

- Minimum application temperature is 40° F (4° C).
- To obtain maximum bond strength, local water conditions have to be taken into account and appropriate surface preparation procedures have to be followed. For further information, contact your BASF Representative.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on jobsite.

Health and Safety

A-P-E HYDROCOTE® 1063-I PART A

Warning

Contains epoxy resin, O-cresyl glycidyl ether.

Risks

May cause skin, eye and respiratory irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Ingestion may cause irritation.

Precautions

Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Wash thoroughly after handling. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Proposition 65

This product does not knowingly contain materials listed by the State of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

0 g/L or 0 lbs/gal less water and exempt solvents

A-P-E HYDROCOTE® 1063-I PART B

DANGER – CORROSIVE

Contains benzyl alcohol, 2,4,6-tri(dimethylaminomethyl)phenol, triethylenetetraamine, diethylenetriamine.

Risks

Contact with skin or eyes may cause burns. Ingestion may cause irritation and burns of mouth, throat and stomach. Inhalation of vapors may cause irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Repeated or prolonged contact with skin may cause sensitization. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

Precautions

DO NOT get in eyes, on skin or clothing. Wash thoroughly after handling. Keep container closed. DO NOT take internally. Use only with adequate ventilation. DO NOT breathe vapors. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

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Product Material Safety Data Sheets (MSDS) are available and should be consulted and on hand whenever handling these products. These products are for professional and industrial use only and are only installed by trained and qualified applicators. Trained applicators must follow installation instructions.

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