



The Chemical Company

PRODUCT DATA

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

# HYDROCOTE® 1063

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

### Description

HYDROCOTE® 1063 compound is two-component, nonsag, marine epoxy paste that can be applied to horizontal, vertical and overhead surfaces, above and below the waterline, and in the presence of wave action.

### Yield

	THICKNESS COVERAGE
1/8 inch (3.2 mm)	25.6 ft <sup>2</sup> /2 gal unit (1.18 m <sup>2</sup> /L)
1/4 inch (6.4 mm)	12.8 ft <sup>2</sup> /2 gal unit (0.60 m <sup>2</sup> /L)
1/2 inch (3.2 mm)	6.4 ft <sup>2</sup> /2 gal. unit (0.30 m <sup>2</sup> /L)

### Packaging

HYDROCOTE® 1063 marine epoxy paste is packaged in 2 U.S. gallon (7.6 L) units

### Color

White

### 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

- Heavy consistency and rapid set
- Marine grade adhesive
- Excellent handling
- Suitable for low-temperature application

### Benefits

- Resists wave action during and after cure
- Will adhere to wood, concrete or steel, above or below water line
- Can be glove applied in thicknesses up to 1 inch (25 mm) in a single application
- Cures down to 40° F (4° C)

### Where to Use

#### APPLICATION

- Patching spalls in concrete
- Filling cavities and sealing large cracks
- Coating for steel to prevent corrosion
- Sealing surfaces for crack injection
- Used with Advanced Pile Encapsulation (APE) Process to top-off encapsulations

#### 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® 1063 material.
2. The substrate must be clean and sound. Remove all marine growth, paint, grease, oil or other contaminants by 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

PROPERTY	REQUIREMENT
<b>Mix Ratio, by volume</b>	1:1
<b>Form</b>	Thick Paste
<b>Color</b>	Component A White, Component B Black, Mixed Grey
<b>Pot Life, minimum</b>	100 grams @ 77 °F (25 °C)
<b>Cure Times @ 77 °F (25 °C)</b>	Initial Cure 5 to 6 hours Full Cure 7 days
<b>Compressive Strength</b>	8000 psi (55.0 MPa) (ASTM 579) 7 days
<b>Tensile Strength</b>	3700 psi (25.5 MPa) (ASTM 638) 7 days
<b>Water Absorption</b>	0.5% maximum (ASTM C 413) 7 days
<b>Tensile Bond Strength</b>	270 psi (1.90 MPa) (ASTM D 4541) 7 days
<b>Shear</b>	2500 psi (17.2 MPa) (ASTM C 882) 7 days
<b>Direct in-situ Bond, Underwater</b>	50 psi (0.35 MPa) Modified Elcometer Method Minimum

#### NOTES:

1. The physical properties listed herein are typical and descriptive. Bond strengths are highly dependent on surface preparation and installation conditions. Pot life is temperature related. Cooler temperatures lengthen pot life.

### 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.
3. Mix until all evidence of the original white and black colors has disappeared and a uniform grey color is achieved.
4. Once mixed, HYDROCOTE® 1063 material may be picked up and handled with gloved hands. Keep gloves thoroughly wet with water to prevent material from sticking to gloves.
5. Material may be rolled into balls or ropes for ease of application.

### Application

1. When applied to surface underwater, it is necessary to "work" the paste on to the surface, using heavy hand pressure, being careful not to entrap water or air bubbles between the' paste and the surface.
2. Hold the paste against the surface for 10-15 seconds to obtain optimum adhesion. 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 of paste with 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 manufacturer's usage recommendation.

### For Best Performance

- 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 the jobsite.

## Health and Safety

A-P-E HYDROCOTE® 1063 PART A

### Warning

Contains epoxy resin, nonyl phenol, glycerol.

### 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 PART B

### DANGER – CORROSIVE

Contains polyamino amide, tetraethylenepentamine, tris(2,4,6-dimethylaminomethyl) phenol, benzyl alcohol.

### 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

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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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