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Maintenance of Cast-
In-Place Concrete

MasterBrace® 6061UW

Marine epoxy paste for the MasterBrace 6000UW (Advanced Pile Encapsulation) System

FORMERLY HYDROCOTE 3061I

YIELD

1/16 in (1.5 mm)

51.2 ft²/2 gal unit (4.8 m²/7.6 L unit)

1/8 in (3 mm)

25.6 ft²/2 gal unit (2.4 m²/7.6 L unit)

1/4 in (6 mm)

12.8 ft²/2 gal unit (1.2 m²/7.6 L unit)

PACKAGING

MasterBrace 6061UW epoxy paste adhesive is packaged in 2 gal (7.6 L) units

COLOR

Grey

SHELF LIFE

18 months when properly stored

STORAGE

Store in unopened containers in a clean, dry area between 50 and 90 °F (10 to 32 °C) away from direct sunlight, flame, or other hazards.

DESCRIPTION

MasterBrace 6061UW two component, epoxy paste adhesive is designed to be applied to surfaces as an adhesive below the waterline.

PRODUCT HIGHLIGHTS

- Marine grade adhesive Will adhere to wood, concrete or steel, above or below water line
- Excellent handling Can be glove applied, hand troweled or pumped
- Suitable for low temperature application Cures down to 40 °F (4 °C)

HOW TO APPLY

SURFACE PREPARATION

Concrete Surfaces

1. New concrete must be fully cured (28 days minimum) before application of MasterBrace 6061UW 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.

APPLICATIONS

- Primarily for sealing seams in FRP jackets and forms (Used with MasterBrace encapsulation systems as seam and gasket adhesive)
- Can also be used for:
 - Bonding and anchoring to concrete, steel and other rigid materials
 - Surface seal for crack injection
 - Piers
 - Bridges
 - Offshore structures
 - Dams
 - Sea walls

SUBSTRATES

- Concrete
- Steel
- Timber

PHYSICAL PROPERTIES

PLASTIC PROPERTIES

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

HARDENED 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

NOTES:

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 MasterBrace 6061UW 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 water-line, 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. MasterBrace 6061UW epoxy paste adhesive may be applied to surfaces under the water-line, 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 Master Builders Solutions Representative.
- Make certain the most current versions of product data sheet and SDS 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 Master Builders Solutions personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on jobsite.

HEALTH, SAFETY AND ENVIRONMENTAL

Health, Safety and Environmental Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting www.master-builders-solutions.com/en-us, e-mailing your request to mbsbscst@mbcc-group.com or calling 1(800)433-9517. Use only as directed. **IN**

CASE OF EMERGENCY: Call CHEMTEL +1 (800) 255-3924 or if outside the US or Canada, +1 (813) 248-0585.

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