

3

03 01 30
Maintenance of Cast-
In-Place Concrete

MasterBrace[®] 6000UW

Epoxy grout for use with the Advanced Pile Encapsulation System

FORMERLY APE PILE GROUT

YIELD

One five gal (19 L) unit of Components A plus Component B when mixed with six 50 lb (22.7 kg) bags of Component C yields approximately 3.18 cu ft (0.09 m³).

PACKAGING

Component A: 5 gal (19 L)
Component B: 5 gal (19 L) Units
Component C: 50 lb (22.7 kg) Bags

COLOR

Component A = White
Component B = Black
Mixed = Grey

SHELF LIFE

18 months 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 6000UW is an aggregate filled epoxy system especially designed for placement by a plural component method, both above and below the waterline. MasterBrace 6000UW is used with the Advance Pile Encapsulation process and other applications where epoxy must be placed in relatively large volumes.

PRODUCT HIGHLIGHTS

- Marine grade epoxy Bonds underwater (seawater or fresh) to wood, concrete or steel
- High flow, self leveling formulation Allows the material to be pumped, minimizing handling and clean up
- Combined with MasterBrace 6060FR jackets to encapsulate Structures and/or restore section loss

HOW TO APPLY

APPLICATION

Methods of surface preparation, application and handling will vary due to the broad scope of specialized applications. Most applications will require removal of marine growth and cleaning of rust and scale. For information on estimating, application, pump equipment and further recommendations contact your Master Builders Solutions representative.

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.

APPLICATIONS

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

SUBSTRATES

- Concrete
- Steel
- Timber

TECHNICAL DATA

COMPOSITION

Three component marine epoxy grout

PHYSICAL PROPERTIES

PROPERTY	REQUIREMENT
Mix Ratio, by volume	1:1, Part A (hardener) to Part B (resin)
Mix Ratio	3.38:1 Part C (aggregate) to Parts A and B (mixed binder) for pumpable grout, ratio may vary for other applications
Mixing and Handling Time	Unlimited when plural component method is used.
Pot Life after mixing at downstream end of hoses:	1 hour @ 77 °F (25 °C) Full Cure Time: 7 days@ 77 °F (25 °C)
Compressive Strength	10000 psi (68.9 MPa) (ASTM C 579) at 7 days@ 77 °F (25 °C)
Tensile Strength	2000 psi (13.8 MPa) (ASTM C 307) at 7 days@ 77 °F (25 °C)
Flexural Strength	4500 psi (31.0 MPa) (ASTM C 580) at 7 days@ 77 °F (25 °C)
Slant Shear	1450 psi (10.0 MPa) (ASTM C 882) wet/wet at 7 days@ 77 °F (25 °C)
Linear Shrinkage	< 0.06% (ASTM C 531) at 14 days@ 77 °F (25 °C)

NOTES:

Bond Strengths are highly dependent on the application and installation conditions. See your Master Builders Solutions Construction Systems representative for related test data.

FOR BEST PERFORMANCE

- Application temperature cure range is 55 °F (13 °C) to 100 °F (38 °C). For applications below 55 °F (13 °C), consult with a Master Builders Solutions representative.
- To obtain maximum bond strength, local water conditions have to be taken into account and appropriate surface preparation procedures have to be followed.
- 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 the jobsite.

MASTERBRACE 6000UW PART B

DANGER – CORROSIVE

Contains: Polyaminoamide; Nonyl phenol; Diethyltoluenediamine; Tetraethylenepentamine; Tris(2,4,6-dimethylaminomethyl) phenol; Diethylenetriamine.

MASTERBRACE 6000UW PART C

WARNING!

Contains: silica, crystalline quartz.

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.**

LIMITED WARRANTY NOTICE

Master Builders Solutions Construction Systems US, LLC (“Master Builders”) warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders’ present knowledge and experience. However, Master Builders assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

FOR PROFESSIONAL USE ONLY. NOT FOR SALE TO OR USE BY THE GENERAL PUBLIC.