

## PRODUCT DATA SHEET

# Sikadur®-6000 UW

(formerly MBrace 6000UW)

## EPOXY GROUT FOR USE WITH THE ADVANCED PILE ENCAPSULATION SYSTEM

### PRODUCT DESCRIPTION

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

### USES

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

### CHARACTERISTICS / ADVANTAGES

- 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.
- Utilized with FRP jackets and forms to encapsulate structures and/or restore section loss.

### PRODUCT INFORMATION

|                    |                                                                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Base      | Three-component marine epoxy grout                                                                                                                                          |
| Packaging          | <ul style="list-style-type: none"><li>▪ Component A: 5 gal (19 L)</li><li>▪ Component B: 5 gal (19 L) Units</li><li>▪ Component C: 50 lb (22.7 kg) Aggregate Bags</li></ul> |
| Shelf Life         | 18 months properly stored                                                                                                                                                   |
| Storage Conditions | 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.                                    |
| Appearance / Color | Component A = White<br>Component B = Black<br>Mixed = Grey                                                                                                                  |

## TECHNICAL INFORMATION

|                           |                                                                                                                                                   |                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Compressive Strength      | 10000 psi (68.9 MPa)                                                                                                                              | (ASTM C 579) at 7 days@ 77 °F (25 °C)         |
| Flexural Strength         | 4500 psi (31.0 MPa)                                                                                                                               | (ASTM C 580) at 7 days@ 77 °F (25 °C)         |
| Tensile Strength          | 2000 psi (13.8 MPa)                                                                                                                               | (ASTM C 307) at 7 days@ 77 °F (25 °C)         |
| Shear Strength            | <b>Slant Shear</b><br>1450 psi (10.0 MPa)                                                                                                         | (ASTM C 882) wet/wet at 7 days@ 77 °F (25 °C) |
| Tensile Adhesion Strength | Note:<br>Bond Strengths are highly dependent on the application and installation conditions. For related test data, see your Sika representative. |                                               |
| Shrinkage                 | <b>Linear Shrinkage</b><br>< 0.06%                                                                                                                | (ASTM C 531) at 14 days@ 77 °F (25 °C)        |

## APPLICATION INFORMATION

|              |                                                                                                                                                                                                                         |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coverage     | One five-gallon (19 L) unit of Component 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).                                                        |
| Mixing Ratio | <b>Mix Ratio, by volume:</b><br>1:1, Part A (hardener) to Part B (resin)<br><br><b>Mix Ratio</b><br>3.38:1 Part C (aggregate) to Parts A and B (mixed binder) for pumpable grout, ratio may vary for other applications |
| Pot Life     | <b>Mixing and Handling Time:</b><br>Unlimited when plural component method is used.<br><b>Pot Life after mixing at downstream end of hoses:</b><br>1 hour @ 77 °F (25 °C) Full Cure Time: 7 days@ 77 °F (25 °C)         |

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

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 Sika 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; visit [usa.sika.com](http://usa.sika.com) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and are not

for supervising or providing quality control on the jobsite.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### 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 Sika representative.

## CLEANING OF TOOLS

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.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](https://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### Product Data Sheet

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Conditions of Sale which are available at  
<https://usa.sika.com/en/group/SikaCorp/termsandconditions.html>  
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