

## PRODUCT DATA SHEET

# Sikadur<sup>®</sup>-6061 UW

(formerly MBrace 6061UW)

### MARINE EPOXY PASTE FOR THE SIKADUR<sup>®</sup>-6000 UW (ADVANCED PILE ENCAPSULATION) SYSTEM

#### PRODUCT DESCRIPTION

Sikadur<sup>®</sup>-6061 UW is a two-component epoxy paste adhesive designed to be applied to surfaces below the waterline.

#### USES

- Adhesive for sealing seams in FRP jackets and forms (used with Sikadur encapsulation systems as seam and gasket adhesive)
- Bonding adhesive for concrete, steel and other rigid materials in damp environments
- Suitable as a seal cap for crack injection
- For use on piers, bridges, offshore structures, dams, and sea walls

#### SUBSTRATES

- Concrete
- Steel
- Timber

#### CHARACTERISTICS / ADVANTAGES

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

#### PRODUCT INFORMATION

<b>Packaging</b>	Sikadur <sup>®</sup> -6061 UW epoxy paste adhesive is packaged in 2 gal (7.6 L) units
<b>Shelf Life</b>	18 months when properly stored
<b>Storage Conditions</b>	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.
<b>Color</b>	Grey

#### TECHNICAL INFORMATION

<b>Compressive Strength</b>	9,000 psi (62.1 MPa)	(ASTM C 579) 7 days
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<b>Tensile Strength</b>	2,250 psi (15.5 MPa)	(ASTM D 638) 7 days
<b>Shear Strength</b>	3000 psi (20.7 MPa)	(ASTM C 882) 28 days
<b>Shrinkage</b>	Length Change	
	-0.0037	(ASTM C 531) 14 days
<b>Water Absorption</b>	0.0035%	(ASTM C 570) 24 hours
<b>Design Considerations</b>	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.	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	1:1	
<b>Coverage</b>	<ul style="list-style-type: none"> <li>▪ 1/16 in (1.5 mm) <ul style="list-style-type: none"> <li>▪ 51.2 ft<sup>2</sup>/2 gal unit (4.8 m<sup>2</sup>/7.6 L unit)</li> </ul> </li> <li>▪ 1/8 in (3 mm) <ul style="list-style-type: none"> <li>▪ 25.6 ft<sup>2</sup>/2 gal unit (2.4 m<sup>2</sup>/7.6 L unit)</li> </ul> </li> <li>▪ 1/4 in (6 mm) <ul style="list-style-type: none"> <li>▪ 12.8 ft<sup>2</sup>/2 gal unit (1.2 m<sup>2</sup>/7.6 L unit)</li> </ul> </li> </ul>	
<b>Gel time</b>	50 Minutes	200 g

## 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.

## 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

### NOTES ON INSTALLATION

- 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 Sika Representative.
- Make certain the most current versions of product data sheet and SDS are being used
- 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 site.

### SUBSTRATE PREPARATION

#### Concrete Surfaces

1. New concrete must be fully cured (28 days minimum) before application of Sikadur®-6061 UW 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 SSPCSP6-63, "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.

### 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 Sikadur®-6061 UW 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. Sikadur®-6061 UW 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.

### 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](http://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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#### Sika Corporation

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



#### Product Data Sheet

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