

# SYSTEM BULLETIN



## KOBA®MER Mechanical Equipment Room

### Product Description

General Polymers KOBA MER system is a multi-layer waterproofing system which combines the flexibility of a polyurethane elastomer membrane with abuse-resistant overlay for durable waterproofing system. Optional aggregate broadcast is available for access areas requiring skid inhibition.

### Advantages

- Around the clock waterproofing protection
- Unsurpassed toughness, withstands heavy traffic
- Provides good chemical and abrasion resistance
- Excellent adhesion
- Prevent lateral water migration
- Optional reinforcement

### Uses

- Mechanical equipment rooms in commercial buildings
- Computer rooms

### System Specification

KOBA MER System consists of 3504 High Solids Primer / Sealer as primer, 4995 Koba Thane (Base) Single Component Aromatic Membrane as membrane, 4991P Koba Thane Pigmented AL Topcoat with 5310 Dry Silica Sand or other approved aggregate.

### Typical Physical Properties of 4995

|  |  |
|--|--|
| Color  | Gray   |
| Solids, by volume  | 84%  |
| Cure Time  | Dry to Touch 6-8 hours<br>Recoat 12-24 hours<br>Light Traffic 24 hours<br>Full Cure 3 days |
| Flammability   | Self-Extinguishing over concrete   |
| Resistance to Elevated Temperatures MIL-D-3134J            | No slip or flow at required temperature of 158°F   |
| Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles | No significant change  |
| Elongation, at break ASTM D 412                            | 525%   |
| Weathering ASTM D 822                                      | Will chalk, not designed for exposure  |
| Adhesion ASTM D 903  | 30 pli   |
| Tear Resistance ASTM C 501                                 | 145 pli  |

ASTM C = Mortar System  
ASTM D = Resin only

## Installation

General Polymers materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the KOBA MER SYSTEM. Contact the Technical Service Department for assistance prior to application.

### Surface Preparation - General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

### Surface Preparation - Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP 1-3. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

### Temperature

Throughout the application process, substrate temperature should be 50°F - 90°F. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

## Application Information

| Material  | Mix Ratio        | Theoretical Coverage Per Coat Concrete | Packaging    |
|---|------------------|--|--------------|
| Primer<br>3504                                      | 1:1              | 300-350 sq. ft. / gal                  | 2 or 10 gals |
| Membrane<br>4995                                    | Single Component | 110 sq. ft. / gal                      | 5 gals       |
| 4995  | Single Component | 110 sq. ft. / gal                      | 5 gals       |
| Seal Coat<br>4991P                                  | Single Component | 140 sq. ft. / gal                      | 5 gals       |
| 5310 Dry Silica Sand<br>or Other approved aggregate | Broadcast        | 10 lbs per 100 sq ft                   | 100 lbs      |

## **Primer**

### ***Mixing and Application***

1. Premix 3504A (resin) and 3504B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3504A (resin) to 1 part 3504B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
3. 3504 may be applied via spray, roller or brush. Apply at a spread rate of 300-350 sq. ft. per gallon, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Wait until primer is dry to prevent solvent entrapment before applying the membrane. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

## **Base Coat**

### ***Mixing and Application***

1. Premix 4995 using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the material.
2. Immediately place the mixed material onto the substrate using a squeegee at a spread rate of 110 sq. ft. per gallon to yield 15 mils WFT.
3. Allow to cure at least 24 hours depending on temperature, humidity, etc. Repeat Steps 1-3 for second application of membrane.

## **Seal Coat**

### ***Mixing and Application***

1. Mix 4991P using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the material.
2. Apply 4991P using a short nap roller at a spread rate of 140 square foot per gallon to yield 11 mils WFT.
3. Broadcast 5310 Dry Silica Sand or other approved aggregate into wet membrane at approximately 10 lbs per 100 sq. ft. and backroll to achieve profile desired.
4. Allow to cure 24 hours before opening to traffic.

## **Cleanup**

Clean up mixing and application equipment immediately after use with warm water.

## **Safety**

MSDS (Material Safety Data Sheets) must be read and understood by personnel responsible for supervision and installation of the General Polymers Materials. In particular, PPI (Personal Protection Index) data should be consulted to help insure safe handling. All applicable federal, state, local, and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

## **Material Storage**

Store materials in a temperature controlled environment (60°F to 90°F) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F to 90°F.

## Maintenance

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

## Shipping

- Destinations east of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
- Destinations west of the Rocky Mountains are shipped F.O.B. Victorville, California.

For specific information relating to international shipments, contact your local sales representative.

## Warranty

The sale of General Polymers Brand products is governed by the Standard Terms and Conditions of Sale. Sherwin-Williams has no knowledge or control concerning buyer's use for the product nor over the quality of the concrete or substrate to which they are applied. Sherwin-Williams assumes no responsibility for any loss or damage resulting from the handling or use of the products by the buyers. Sherwin-Williams makes the following **LIMITED WARRANTY** that its products have been supplied free from manufacturing defects, and will conform to Sherwin-Williams manufacturing standards. Technical data furnished is true and accurate to the best of our knowledge; however, no guarantee of accuracy is given or implied.

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This Limited Warranty shall be governed by and construed in accordance with the internal laws of the State of Ohio without regard to the principles of conflicts of laws. Any controversy or claim arising out of or relating to this Limited Warranty or alleged breach thereof, shall be settled by mediation under the Construction Industry Mediation Rules of the American Arbitration Association. If, within thirty (30) days after service of a written demand for mediation, the mediation does not result in settlement of the dispute, then any unresolved controversy or claim arising from or relating to this Limited Warranty or alleged breach thereof shall be settled by arbitration administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules and judgment on the award rendered by the arbitrator(s) shall be final and binding on the parties and may be entered in any court having jurisdiction thereof. All such mediation and arbitration shall take place in Cleveland, Ohio. This Limited Warranty supersedes any other warranty or other representation, whether written or oral, hereto made between parties.



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