



# Technical Data

## Meridian Solid Surface®

Meridian Solid Surface® products are made of a nonporous homogeneous blend of polyester and acrylic resins and natural mineral fillers. Meridian is solid from front to back and from top to bottom. Meridian has no overlay finish or surface coating to disrupt. Meridian is stain resistant to most household reagents and is engineered to be protected from Ultra Violet light contamination.

Meridian has passed all tests contained within the Solid Surface standard – ANSI / ICMA SS-2001. All tests were performed and certified by Home Innovation Research Labs in Upper Marlboro, Maryland. Home Innovation Research Labs is a certified national testing lab and all data is readily available.

Meridian has been given a Class One fire rating with a flame spread factor of less than 25. Meridian was tested by a nationally-certified Hardwood Plywoods Manufacturers Association laboratory to comply with the national burn test as stated in ASTM E-84.

Meridian maintenance is simple and easy as it can be cleaned with normal household detergents. While mildly abrasive cleaners will not harm Meridian surfaces, it is suggested that non-abrasive cleaners be used to clean the products. Difficult stains or abrasions can be easily conquered with the use of a green Scotchbrite® scouring pad by 3M Corporation.

All Meridian products are manufactured to withstand normal household use temperatures. Our sinks and shower bases are regularly tested to the CSAB45.5/IAPMO Z124 standard, which includes a thermal shock test for kitchen and bathroom applications. Care should be taken to avoid extreme temperature swings, which may shock the product and reduce the product's life span. As with any composite product, extreme temperature swings can cause increased stress and damage to the product. One should always use care when pouring extremely hot liquids onto a cold surface or placing extremely hot items onto a cold surface or vice versa.

In addition, Meridian Solid Surface® shower bases have been tested beyond the established standard using a concentrated load test, in which increasing pressure is applied to a 3" diameter load distribution disc located near the drain orifice in the shower base. This test did not result in failure of the Meridian Solid Surface® shower base that was being tested. Instead, the test was terminated at 78,375 pounds of pressure with no visible cracking or failure of the shower base in order to avoid damage to the testing equipment.

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2101 Ninth Street S.W.  
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# Testing Data Sheet

## Meridian Solid Surface® Shower Bases/Receptors

Meridian Solid Surface® Shower Bases are regularly tested by Home Innovation Research Lab in Upper Marlboro, Maryland for compliance with the harmonized CSA B45.5/IAPMO Z124 standard.

In addition, all Meridian Solid Surface® products have passed the strict ANSI ICPA – 1 – 2001 solid surface standard. Meridian Solid Surface® was one of the original ten solid surface products used to establish baseline testing for this standard, and Meridian meets and exceeds each of the tests performed.

|        |  |  |                |
|--------|--|--|----------------|
| 2.1    | <b>Materials</b>                           | Reinforced polymer resin and alumina trihydrate filler with pigment  | <b>PASS</b>    |
| 2.2    | <b>Dimensional Tolerance</b>               | Unit's finished trim measurements shall be within tolerance of the manufacturer's stated rough-in dimensions.  | <b>PASS</b>    |
| 2.3    | <b>Unit for Testing</b>                    | Unit shall be randomly selected from manufacturer's finished goods inventory.  | <b>PASS</b>    |
| 2.4    | <b>Installation Instructions</b>           | Written instructions shall be provided with the unit.  | <b>PASS</b>    |
| 2.5    | <b>Care &amp; Maintenance Instructions</b> | Written instructions shall be provided with the unit.  | <b>PASS</b>    |
| 2.6    | <b>Identification</b>                      | Manufacturer's name and/or trademark shall be permanently and legibly marked on the unit in a visible location.  | <b>PASS</b>    |
| 2.8    | <b>Raised Flange and Tiling Bead</b>       | Units for installation against a wall shall incorporate a raised flange of not less than 1" above the rim at any point.  | <b>PASS</b>    |
| 3.3    | <b>Surface Test</b>                        | Unit shall be free of cracks, chipped areas, and blisters.   | <b>PASS</b>    |
| 3.4    | <b>Subsurface Test</b>                     | No visual blemishes or voids larger than 1/16" in diameter shall be observed below the surface finish.   | <b>PASS</b>    |
| 4.2    | <b>Drain Fitting Connection Test</b>       | During and after the application of 50 pounds by using a 24" lever arm in three radial positions, no cracks shall be observed around the drain opening and no leaks shall be observed.   | <b>PASS</b>    |
| Custom | <b>Load Test</b>                           | Increasing pressure applied to surface of shower base using a 3" diameter load-distribution disc on a 1/2" layer of hard rubber. Test discontinued in order avoid damage to the testing apparatus with no damage to or failure of the shower base.   | <b>78,375#</b> |
| 4.3    | <b>Point Impact Load Test</b>              | After the impact of a 1 1/2", 8oz steel ball from a height of 36" and 24", no cracks or chips shall be observed in any of the surface areas tested.  | <b>PASS</b>    |
| 4.4    | <b>Bottom and Threshold Load Test</b>      | <u>Bottom Load:</u> Measurements recorded under the applied loading of 300 lbs. on three different bottom surface areas shall not exceed a deflection of 0.150". No cracks shall be observed in the surface finish.<br><u>Rim Load:</u> A 300 lb. load shall be applied to the end and mid-sections of the rim. No cracks shall be observed in the surface finish. | <b>PASS</b>    |
| 4.7    | <b>Radii Load Test</b>                     | Surface shall not show cracks, chips, or voids under the applied load of 10 lbs. with a 1/2" diameter nylon rod on the unit's radial surface areas.  | <b>PASS</b>    |
| 6.1    | <b>Water Resistance Test</b>               | No cracking, crazing, blistering, or peeling shall be observed after 250 test cycles.  | <b>PASS</b>    |

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## MATERIAL SAFETY DATA SHEET

### SECTION I – CHEMICAL PRODUCT AND COMPANY INFORMATION

This Material Safety Data Sheet covers the following products manufactured by Tower Industries.

**MANUFACTURERS:** Meridian Solid Surface  
Tower Industries  
2101 Ninth Street S.W.  
Massillon, OH 44647  
(330) 837-2216

**EMERGENCY TELEPHONE NUMBER:** (330) 837-2216

**TELEPHONE NUMBER FOR INFORMATION:** (330) 837-2216

**DATE PREPARED:** October 3, 2008  
Werstler,

**PREPARED BY:** Todd  
President

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### SECTION II – Hazardous Ingredients/Identify Information

| <u>Hazardous Component</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>%</u> |
|----------------------------|-----------------|------------------|----------|
|----------------------------|-----------------|------------------|----------|

This product does not contain regulated levels of NTP, IARC, or OSHA listed carcinogens.

This product produces nuisance particulate as identified by ACHIH and OSHA upon sawing, machining, sanding or routing.

|  |   |
|--|---|
| TWA 15mg/m3<br>(Total Dust)            | TWA 10mg/m3<br>(Inhalable Particulate)  |
| STEL (none)                            | STEL (none)                             |
| TWA 5mg/m3<br>(Respirable Particulate) | TWA 10mg/m3<br>(Respirable Particulate) |
| STEL (none)                            | STEL (none)                             |

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### SECTION III – Physical/Chemical Characteristics

|                             |                     |                          |      |
|-----------------------------|---------------------|--------------------------|------|
| <b>BOILING POINT:</b>       | N/A                 | <b>SPECIFIC GRAVITY:</b> | 1.75 |
| <b>VAPOR PRESSURE:</b>      | N/A                 | <b>MELTING POINT:</b>    | N/A  |
| <b>VAPOR DENSITY:</b>       | N/A                 | <b>EVAPORATION RATE:</b> | N/A  |
| <b>SOLUBILITY IN WATER:</b> | Insoluble in water. |                          |      |
| <b>APPEARANCE AND ODOR:</b> | Solid, no odor.     |                          |      |

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## SECTION IV – Fire and Explosion Data

**FLASH POINT:** N/A

**FLAMMABLE LIMITS:**

**LEL** N/A  
**UEL** N/A

**EXTINGUISHING MEDIA:** This material is considered a “Class A” type combustible material. Use water spray, carbon dioxide, or dry chemical foam to extinguish flames. Use water to keep cool and prevent rekindling. Wear self-contained positive pressure breathing apparatus and full fire fighting protective clothing.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** Machining, sawing, routing, and/or sanding of this product a Class ST-1 dust. Safety precautions (and proper ventilation) as recommended by NFPA-68 for Class ST-1 dusts should be followed to prevent this or any Class ST-1 dust from presenting an explosion hazard.

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## SECTION V – Reactivity Data

**STABILITY:** STABLE X UNSTABLE  
**CONDITIONS TO AVOID:** None known.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Organic solvents, strong acids or alkaline solutions will destroy the luster or surface appearance.

**HAZARDOUS DECOMPOSITION BYPRODUCTS:** May produce Carbon Monoxide, Carbon Dioxide, smoke, and/or oxides of nitrogen.

**HAZARDOUS POLYMERIZATION:** MAY OCCUR WILL NOT OCCUR X  
**CONDITIONS TO AVOID:** None known.

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## SECTION VI – Health Hazard Data

**ROUTES OF ENTRY:** The potential routes of entry are inhalation, ingestion, skin contact, and eye contact.

**Inhalation:** Nuisance Dust – Overexposure to dust may cause irritation of the respiratory tract. Should this happen, remove affected individual to fresh air. If symptoms persist, consult a physician.

**Ingestion:** Nuisance Dust – may cause direct tissue irritation but is not expected to cause a significant toxic response. Call physician. DO NOT induce vomiting.

**Skin & Eye:** Nuisance Dust – May cause irritation. Wash skin with soap and water, flush eyes with water for at least 15 minutes. Contact physician if irritation persists.

**HEALTH HAZARDS (Acute and Chronic):** This product is not hazardous in normal use. During fabrication operations (such as sawing, drilling, routing and sanding) dust, consisting of cured resin are generated at the cutting face.

## SECTION VII – Precautions for Safe Handling and Use

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** This material is non-hazardous. Sweep up/pick up scrap material and place in disposal containers.

**WASTE DISPOSAL METHOD:** Scrap material and dust may be disposed according to applicable Federal, State, and local regulations. This product is non-hazardous under RCRA.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Safety glasses, gloves, and safety shoes should be worn when handling or machining material to prevent cuts and abrasions.

**OTHER PRECAUTIONS:** Maintain adequate ventilation to maintain airborne concentrations of dust below the exposure limits.

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## SECTION VIII – Control Measures

### EXPOSURE CONTROL METHODS:

Provide sufficient ventilation and dust pick-up at saw, sander, drill or router to keep dust level below 10mg/cubic meter TWA or provide and make mandatory the wearing of NIOSH approved dust respirators.

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## SECTION IX – OTHER REGULATORY INFORMATION

**SHIPPING DESCRIPTION:** Not regulated by the Department of Transportation (D.O.T.)

**HAZARDOUS MATERIAL CLASS:** Non-hazardous

**LABELLING:** None

### REVISION HISTORY:

Date of Issue: 10/3/08

Supersedes all previous issues.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which Tower Industries assumes legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. TOWER INDUSTRIES MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED.



# CARE AND CLEANING INSTRUCTIONS

## Meridian Solid Surface® Shower Products

Your Meridian Solid Surface® shower product is made from a non-porous blend of polyester resin and natural mineral fillers. It is solid from front to back and from top to bottom, with no surface coating or overlay finish to disrupt. You can protect the beauty of your Meridian Solid Surface® shower product and ensure a long life of trouble-free service by observing the following guidelines.

### GENERAL CARE AND CLEANING

1. Meridian Solid Surface® is easy to clean using warm water and any normal household detergent, followed with a clear water rinse. Mildly abrasive cleaners may be used with caution on matte-finished Meridian Solid Surface® products, but should be tested in an inconspicuous area before use to ensure that the finish is not damaged by the abrasive.
2. Normal household stains and minor abrasions may be easily corrected in any matte-finished Meridian Solid Surface® shower product by using a white, green, or maroon Scotchbrite® Scouring Pad by 3M Corp.
3. Deep scratches or gouges in your matte-finished Meridian Solid Surface® shower product may be sanded with standard 220 & 320-grit sandpaper. Depending on the severity of the damage and the finish of your product, we suggest that you begin with the least coarse grit first and work your way up to the finest grit sandpaper. You may then use a Scotchbrite® Scouring Pad to return the product to its original luster.

### ***PLEASE NOTE***

*The pebble-textured finish that is provided on the surface of most Meridian Solid Surface® shower bases cannot be sanded as outlined above. Sanding the surface of a Meridian Solid Surface® shower base will remove the non-slip pebble texture, resulting in a smooth, matte-finish in the sanded area.*

4. DO NOT apply sealers, waxes, penetrants, or other topical treatments to your Meridian Solid Surface® shower product(s) under any circumstances.

Note: Tower recommends the use of synthetic, non-oil-based plumbers putty, such as Hercules® "Sta-Put" brand or any plumbers putty noted as "stain-less", with all Meridian Solid Surface® products.

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## **15-YEAR COMMERCIAL LIMITED WARRANTY**

### **Meridian Solid Surface® Shower Components**

Tower Industries warrants to the original end-use purchaser that Tower Industries will, at Tower's option, repair or replace any Meridian Solid Surface® shower base, shower wall panel, or other shower component without charge if such product develops visible defects or otherwise fails due to Tower manufacturing defects within fifteen (15) years after the date of initial installation. The Meridian Solid Surface® shower product must be installed in a commercial setting, and be used and maintained in accordance with instructions provided by Tower Industries, Inc.

#### **THIS WARRANTY DOES NOT COVER:**

1. Minor conditions such as stains, scratches, chips, water spots and burns. Due to the unique properties of Meridian Solid Surface®, such conditions may be corrected by scouring with an abrasive cleaner or by other techniques specified in care and cleaning instructions provided by and available through Tower Industries, Inc.
2. Failure of joints or seams or of any adhesive, caulk or other accessory.
3. Failure to comply with Tower Industries' Fabrication and/or Installation Instructions
4. Failure to comply with Tower Industries' Care and Maintenance Instructions.
5. Use of Meridian products with water temperatures exceeding 130°F.
6. Failure of product due to excessive heat
7. Use for purposes other than normal interior use in the United States or Canada.
8. Any products moved from their original place of installation.

**TOWER'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO THE REMEDIES SPECIFIED IN THE FIRST PARAGRAPH OF THIS WARRANTY. NO IMPLIED OR EXPRESS WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR ANY OTHER WARRANTY EXCEPT THOSE SPECIFICALLY STATED IN THIS WARRANTY OR REQUIRED BY LAW IS GRANTED. EXCEPT FOR THE REMEDIES DESCRIBED IN THIS WARRANTY, TOWER HAS NO LIABILITY FOR ANY LOSS OR ANY DAMAGES, ARISING OUT OF THE USE OR INABILITY TO USE MERIDIAN PRODUCTS.**

**THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS, WHICH WILL VARY FROM STATE TO STATE OR IN CANADA, FROM PROVINCE TO PROVINCE. FEDERAL LAW DOES NOT PERMIT THE DISCLAIMER OR MODIFICATION OF IMPLIED WARRANTIES ARISING UNDER APPLICABLE STATE LAW FOR CONSUMER PRODUCTS. HOWEVER, ANY OF SUCH IMPLIED WARRANTIES SHALL EXPIRE AT THE EARLIER OF THE EXPIRATION OF THE STATED WARRANTY OR THE EXPIRATION OF THE PERIOD FOR THE IMPLIED WARRANTY REQUIRED UNDER STATE LAW. SOME STATES DO NOT ALLOW LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSIONS MAY NOT APPLY TO YOU.**

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