Primer ESD WB

Primer ESD WB is a 2 components, water dispersed epoxy primer with high electrical conductivity, specially designed to receive conductive and dissipative floor coating systems.

### Features/Benefits
- High conductivity
- Water based formulated epoxy resin
- Low VOC
- Solvent free
- Low odor application
- Excellent adhesion to most type of substrates
- Ease of application
- Use as the conductive primer for Flow ESD Conductive / Dissipative finish

### Uses
- Electronics, microelectronics, automotive
- Pharmaceutical
- Aerospace
- Operation theatre
- AGV, robotic operating logistic center
- Explosives production line
- Storage and handling of flammable materials
- Semi—conductor / Circuits production
- Data Center

### Manufacturer/ Distributed By
LATICRETE South East Asia Pte Ltd (Level 2, A3)
No. 38 Sungei Kadut, Street 2, Singapore 729245
Telephone: +65 6515 3028  Fax: +65 6515 3037
Internet: se.laticrete.com

### Standards/Certifications
- ASTM F150
- ASTM D4541
Suitable Substrates
- Concrete
- Polymer Screed / Mortar
- Epoxy Mortar
- Epoxy Cementitious Vapor Barrier
- Self-compact concrete
- Properly prepared existing floor coating*

*Note: Further information to consult with Laticrete Technical Department.

Packaging
Part A: 10kg
Part B: 20kg

Coverage
One set of Primer ESD WB yields a coverage of approximate 250 m² at 0.1mm thickness per coat.

Shelf Life
The temperature of the storage area should be between 8°C and 32°C, avoid excessive heat and freezing of the material.

This product must be stored in its original packaging on pallets in clean, dry, ventilated areas, and out of direct sunlight.

Limitations
Substrate temperature must be between 10°C and 32°C. Substrate temperature must be 3°C above the dew point. Concrete moisture content must be below 4%. The relative humidity of the slab must not exceed 75% as tested per ASTM F2170 Relative Humidity in Concrete Slab test. If there is a moisture emission situation in excess of the above rate, use LATICRETE® Moisture Vapor Barrier.

Note: Prior to application, sound out existing substrate to identify any hollows or nonsolid areas. All nonsolid concrete should be removed and repaired. It is very important that the finished product is applied over sound, solid, and suitable concrete substrate and/or coating.

Cautions
Before using any LATICRETE product:
- Check se.laticrete.com for any technical bulletins or updated information about the product and its application
- Wear protective gloves, clothing, safety shoes, and eye wear
- May cause skin irritation
- May cause an allergic skin reaction. If rash occurs, remove individual from the work area and seek physician’s care for dermatitis
- May cause serious eye irritation. In case of eye contact, flush with water for at least 15 minutes and consult a physician
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Do not attempt to wash and reuse it. This material can be removed with soap and water. Do not use acetone
- If swallowed, do not induce vomiting; call a physician immediately
- Keep out of reach of children
- Consult MSDS for more safety information

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Performance Properties</th>
<th>Working Properties</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Working time: &lt;60 minutes</td>
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<tr>
<td></td>
<td>Touch dry: &lt;60 minutes</td>
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<tr>
<td>Mixing Ratio</td>
<td>Part A: 1 Part A; 2 Part B by weight</td>
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<tr>
<td></td>
<td>Supply form: liquid</td>
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<tr>
<td></td>
<td>Colour: White</td>
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<tr>
<td>Density</td>
<td>1.2 kg/L</td>
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<tr>
<td>Test</td>
<td>Test Method: ASTM F150</td>
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<tr>
<td></td>
<td>Results: 1.0 x 10⁶ Ω – 9.9 x 10⁷ Ω</td>
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<tr>
<td>Pull-Off Adhesion</td>
<td>Strength: ASTM D4541</td>
</tr>
<tr>
<td></td>
<td>Results: &gt;3.0 N/mm²</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. Technical data shown in product data sheets are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance and test results will depend on installation methods and site conditions. Field test results will vary due to critical job site factors. All recommendations, statements and technical data contained in this data sheet are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not be construed as a warranty or guarantee of any kind. Satisfactory results depend upon many factors beyond the control of LATICRETE South East Asia Pte Ltd. User shall rely on their own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from their direct use, indirect use or consequential to their use of the product. LATICRETE shall not be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.

INSTALLATION SYSTEM

Surface Preparation
Concrete must be prepared mechanically to remove all surface contamination. Use one of the following tools to mechanically profile the concrete surface to achieve a homogenous texture:
- Diamond Grinding Machine
- Shot Blast Machine

The prepared surface should have a nominal tensile strength of 225 psi (1.6 MPa) per ASTM D7234. Concrete must be tested for relative humidity (RH) prior to installation of any coatings. The RH of the slab must not exceed 75% as tested per ASTM F2170. If RH measures 75% or greater, Moisture Vapor Barrier may be used if the Moisture Vapor Emission Rate is below 12 kg/93 m²/24hr
Honeycombs or voids exposed due to mechanical preparation must be treated with the appropriate filler from our selection of complementary products.

Cracks & Joints
Inspect substrate to identify all moving and nonmoving cracks/joints. Method of repair for moving cracks/joints should be designated by local onsite project engineer. All non-moving cracks/joints should be addressed and infilled prior to application of surface coating.

Application

Primer EP
Mix the pre-weighted Part A and Part B in a clean mixing container using a slow speed (<500 RPM) helical spinner mixer. Mix thoroughly for 1 — 2 minutes till homogenious the mix. Pour the mixture onto the prepared surface. Spread evenly using a rubber squeegee and back roll with medium roller. Ensure full coverage of the primer over the substrate. Apply 2 coats for porous surface. Leave it to cure for 7 — 10 hours depends on ambient condition.

Copper Tapes & Earthing
After the curing of Primer EP, apply self — adhesive copper tapes. Lay the copper tapes in grid and connect to an Earth point (via power socket or copper rod — at least 3 meter penetrates to ground) at every 100 m². For further information, please consult with Laticrete Technical Department.

Assess the electricity resistance using a Megger Insulation meter or equivalent; ensure all connections is well attached.

Primer ESD WB
Apply the Primer ESD WB subsequently after completing the copper tapes / circuits. Mix the pre-weighted Part A and Part B in a clean mixing container using a slow speed (<500 RPM) helical spinner mixer. Apply the conductive primer, Primer ESD WB using a short pile roller onto the prepared surface. Allow it to cure for 12 hours depends on ambient condition. After curing, assess the electricity resistance on the cured surface. The test results should not be more than 5.0 x 10^7 Ohm (Ω) before proceed to the subsequent finish. Failing which, re-apply the Primer ESD WB.

After the curing of the Primer ESD WB, apply the Flow ESD Dissipative / Conductive finish.

Cleaning of Tools
Clean all tools and spray equipment immediately after use with warm water and detergent. Acetone may be used as a final rinse.

AVAILABILITY AND COST
Availability
LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:
Telephone: (65) 65153028
Fax: (65) 65153037
For on-line distributor information, visit LATICRETE at
se.laticrete.com

Cost
Contact a LATICRETE Distributor in your area.

WARRANTY
LATICRETE South East Asia Pte Ltd warrants that Primer ESD WB is free from manufacturing defects and will not to break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

MAINTENANCE
The long term performance, appearance, and life expectancy of wear surface products are critically dependence upon a good routine maintenance regime designed specifically for the installed wear surface.

TECHNICAL SERVICES
Technical Assistance
Information is available by calling:

LATICRETE South East Asia Pte Ltd
(Level 2, A3)
No. 38 Sungei Kadut, Street 2,
Singapore 729245
Telephone: (65) 65153028
Fax: (65) 65153037
Email: enquiry@laticrete.com.sg

Technical and safety literature
To acquire technical and safety literature, please visit our website at
se.laticrete.com