TECHNICAL DATA SHEET – THIOKOL® 5050

DESCRIPTION
THIOKOL® 5050 primer is a low viscosity primer used to prime concrete and steel surfaces for THIOKOL polysulfide sealants.

TYPICAL APPLICATION

<table>
<thead>
<tr>
<th>PRIMER</th>
<th>THIOKOL® 5050 Primer @ 700-800 linear ft/unit (concrete) – 2-3 mils (steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEALANT</td>
<td>THIOKOL® polysulfide sealant system</td>
</tr>
</tbody>
</table>

PERFORMANCE DATA

<table>
<thead>
<tr>
<th></th>
<th>0.0 gm/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td></td>
</tr>
<tr>
<td>VOLUME SOLIDS</td>
<td>65%</td>
</tr>
</tbody>
</table>

STORAGE & INSTALLATION

<table>
<thead>
<tr>
<th></th>
<th>Dry area, 65-80°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>STORAGE ENVIRONMENT</td>
<td></td>
</tr>
<tr>
<td>APPLICATION TEMPERATURE</td>
<td></td>
</tr>
<tr>
<td>AMBIENT</td>
<td>40-95°F</td>
</tr>
<tr>
<td>APPLICATION TEMPERATURE</td>
<td></td>
</tr>
<tr>
<td>SUBSTRATE</td>
<td>Minimum 5°F above dew point</td>
</tr>
<tr>
<td>SHELF LIFE</td>
<td>1 year</td>
</tr>
<tr>
<td>POT LIFE, @ 77°F</td>
<td>3 hours</td>
</tr>
<tr>
<td>RECOAT TIME FOR CONCRETE, @ 77°F</td>
<td>min 2 hours / max 36 hours</td>
</tr>
<tr>
<td>RECOAT TIME FOR STEEL, @ 77°F</td>
<td>min 4 hours / max 36 hours</td>
</tr>
</tbody>
</table>

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

BENEFITS

- Low viscosity formulation penetrates and seals concrete pores
- Easy 1:1 volume mixing
- Easy to apply
- Fast recoat time

RECOMMENDED USES

- Concrete and steel primer as part of a complete THIOKOL® Sealant System

GENERIC DESCRIPTION: Epoxy Primer

STANDARD COLORS: Clear Amber

PACKAGING: 0.25-Gallon Unit

MIX RATIO: 1R : 1H

COVERAGE:

- ¾” – 960 linear ft/unit
- 1” – 480 linear ft/unit

700–800 linear ft/unit (concrete)
1100-1300 linear ft/unit (steel)

May vary depending on concrete porosity
CONSIDERATIONS & LIMITATIONS
1. Do not thin with solvents unless advised to do so by ITW Polymers Sealants North America, Inc.
2. Confirm product performance in specific chemical environment prior to use.
3. Prepare substrate according to “Surface Preparation” portion of this document.
4. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
5. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION
CONCRETE: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.
- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surfacelayers.
- Concrete should have a minimum surfacetensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3 to CSP-5 meeting ICR (International Concrete Repair Institute) standard guideline R03732 for coating concrete, prod cing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- Moisture vapor transmission should be 3 pounds or less per 1,000 square feet over a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results <75%.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.
- Outgassing may occur due to the porosity of some concrete surfaces. To reduce the effect of outgassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening, however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.

STEEL: For immersion service, “White Metal” abrasive blast with an anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1 is required. For splash and spillage exposure, “Near White” SP-10-63 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details

INSTALLATION STEPS
1. Component A Resin should be premixed prior to using due to possible additive separation.
2. Pour Component B Hardener into the Component A Resin pail and mix by hand for a minimum of two minutes. Scraper the side of the pail to ensure the entire product has been properly mixed; any unmixed material left on the side of the pail will not cure.
3. THIOKOL 5050 Primer can be applied by brush.
4. Allow primer to cure within recommended recoat time before proceeding to application of THIOKOL sealant.
5. For best results, clean tools and equipment with MEK or xylene. Always wear gloves when using this product.

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