HYDROSTOP
SINGLE-COMPONENT POLYURETHANE/POLYUREA WATERPROOFING - NO.789

Specification Data

Type
Single component, moisture curing coating based on polyurethane/polyurea copolymer to provide a water proofing resistant barrier. Typically applied direct to concrete about 1mm. It also can be offered a sufficient protective barrier on carbon, stainless steel with different epoxy primer, the operate temperatures ranging up from 80°Cto -40°C.

Uses
Waterproofing for rooftop, balcony, bathroom, sky garden and planting areas.

Characteristics
1. Excellent adhesion.
2. Film is tough, high elastomeric and impervious.
3. Single component product, easy to use.

Color
Iron-Gray

Primer
- Carbon Steel: EP-116 Epoxy Multipurpose primer
- Stainless Steel: No.1020 Epoxy Alloy Primer
- Concrete Surface: No.785 Single Component Primer

Subsequent Coats
No.781

Repair
Self Repairing

Viscosity
2000~8000 cps (25°C)

Volume Solids
Above 90%

specific weight
1.3~1.4

Typical Thickness
1-2 mm per coat

Theoretical Coverage
Average coating area of per set of 1.4 Kg are about one square meter(1mm). (reference value)
## Performance Data

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Test Method</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness(Type A/1 sec)</td>
<td>ASTM D2240-15</td>
<td>40</td>
</tr>
<tr>
<td>Tensile Strength (kgf/cm²)(23°C)</td>
<td>ASTM D412-16</td>
<td>23.8</td>
</tr>
<tr>
<td>Elongation (%) (23°C)</td>
<td>(Die C, V=500mm/min)</td>
<td>720</td>
</tr>
<tr>
<td>Tensile Strength (kgf/cm²)(80°C)</td>
<td>Ref. ASTM D412-16</td>
<td>12.5</td>
</tr>
<tr>
<td>Elongation (%) (80°C)</td>
<td>(Die C, V=500mm/min)</td>
<td>200</td>
</tr>
<tr>
<td>Tensile Strength (kgf/cm²)</td>
<td>(-40°C)</td>
<td>&gt;350</td>
</tr>
<tr>
<td>Adhesion Strength (kgf/cm²)</td>
<td>Mortar</td>
<td>14.8</td>
</tr>
<tr>
<td></td>
<td>Ref. ASTM D4541-09¹</td>
<td>Method E, Type V</td>
</tr>
<tr>
<td>Tear Strength (kgf/cm²)</td>
<td>ASTM D624-00(2012)</td>
<td>11.4</td>
</tr>
<tr>
<td></td>
<td>(Die C, V=500mm/min)</td>
<td></td>
</tr>
<tr>
<td>Water Resistance (70°C; 48 h)</td>
<td>Ref. ASTM D471-16a</td>
<td>No abnormality</td>
</tr>
<tr>
<td>Chemical Resistance (5% NaOH)</td>
<td>ASTM D543-14</td>
<td>No abnormality</td>
</tr>
<tr>
<td>(23°C; 24 h)</td>
<td>5% H₂SO₄</td>
<td>No abnormality</td>
</tr>
<tr>
<td></td>
<td>5% HCL</td>
<td>No abnormality</td>
</tr>
</tbody>
</table>

Test reports and additional data available upon written request.

## Certification

CNS 6986 : ( SGS Taiwan Ltd )

## Application Instruction

- **Surface preparation**
  - **General**: Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
  - **Concrete**: The water content of new cement surface have to under 12% before applying.
  - **Carbon Steel**: Surface preparation standards can be used SSPC-SP10 · Sa2 1/2 (ISO 8501-1:2007) or hand
  - **Galvanized and Austenitic/Duplex stainless**: The galvanized or stainless steel must be sand blasted to SSPC-SP16 before application. Dense angular for stainless and galvanized steel surface requires above 1 mil.

- **Methods**: Can be applied by brush, roller or trowel.
Environment conditions

Industry standards are for substrate temperatures to be 3°C (5°F) above the dew point. The product simply requires the substrate temperature to be above the dew point.

Curing Schedule

<table>
<thead>
<tr>
<th>Surface Temp. &amp; 50% Relative Humidity</th>
<th>Touch Free</th>
<th>Dry to Recoat &amp; Topcoat</th>
<th>Final Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>25°C (77°F)</td>
<td>4~5 hours</td>
<td>1 day</td>
<td>7 days</td>
</tr>
<tr>
<td>50°C (122°F)</td>
<td>2~4 hours</td>
<td>0.5~1 day</td>
<td>4~5 days</td>
</tr>
</tbody>
</table>

Package, Handling & Storage

- **Shelf Life**: Minimum 12 months under 40°C environment temp.
- **Shipping Weight**: 3 KG
- **Shipping Weight**: 10 KG
- **Storage Temperature & Humidity**: 5-40°C (41-104°F), 0-90% Relative Humidity
- **Flash Point**: 100°C (212°F)
- **Storage**: Store in cool ventilated place, do not expose to the sun in outdoor to avoid affecting the quality.