**Product Description**

Hycrete W500 is a patented concrete waterproofing admixture that significantly reduces water ingress through concrete. Ordinary concrete absorbs water and dissolved salts through its network of pores, leading to water infiltration and corrosion of steel reinforcement. Hycrete W500 reduces absorption and forms a protective coating around steel reinforcement. Less water and fewer chlorides are able to penetrate the concrete and the reinforcement has enhanced protection from corrosion.

Hycrete W500 delivers consistent and reliable performance and is easy to use. Hycrete W500 is an environmentally-responsible, Cradle to Cradle™ certified product. Using Hycrete W500 allows owners and builders to have the comfort of knowing their investment/project remains secure against one of nature’s most damaging elements … water.

**Product Features**

- Cradle to Cradle™ certified by MBDC
- NSF/ANSI 61 - approved for use in potable water tanks
- Compatible with standard admixture metering equipment
- ISO 14021 compliant - recycled content in accordance with Type II environmental labeling; applicable for LEED Materials and Resources Credit 4.1/4.2 - Recycled Content

**Uses and Applications**

- Above and below grade construction
- Water containment reservoirs
- Sewage and water treatment plants
- Secondary containment structures
- Underground vaults
- Extra protection for walls and slabs
- Tilt-up panel walls
- Pre-cast components
- Architectural water features and fountains
- Bridges, dams and highway infrastructure
- Aquatic centers, marinas, and zoos
- Swimming pools

*See page 2 for testing methodologies*
**DATA SHEET - HYCRETE W500**

**PRODUCT PERFORMANCE**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water absorption</td>
<td>BSI 1881-122</td>
<td>50% reduction compared to control</td>
</tr>
<tr>
<td>Permeability/hydrostatic pressure</td>
<td>DIN 1048 BS EN 12390-8</td>
<td>Passes DIN 1048; up to 70% reduction in permeability</td>
</tr>
<tr>
<td>Crack healing</td>
<td>ASTM C597</td>
<td>Concrete with Hycrete fosters faster and 100% complete healing compared to untreated control</td>
</tr>
<tr>
<td>Set time</td>
<td>ASTM C403</td>
<td>Set neutral</td>
</tr>
<tr>
<td>Drying shrinkage</td>
<td>ASTM C157</td>
<td>Neutral to the control</td>
</tr>
<tr>
<td>Slump</td>
<td>ASTM C143</td>
<td>Neutral</td>
</tr>
<tr>
<td>Workability</td>
<td>N/A</td>
<td>Excellent</td>
</tr>
<tr>
<td>Effect on concrete color</td>
<td>N/A</td>
<td>None</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>ASTM C39</td>
<td>Water/cement ratios may need to be lowered to account for possible, minor strength decreases associated with some materials. Perform trial mixes.</td>
</tr>
<tr>
<td>Potable water</td>
<td>NSF/ANSI 61</td>
<td>Approved for use in potable water tanks 50,000 gallons or greater and pipes 84&quot; in diameter and greater</td>
</tr>
<tr>
<td>Adhesion</td>
<td>ASTM C1583, ASTM C1072, ASTM D3359</td>
<td>Neutral; no adverse effect on bond with concrete</td>
</tr>
</tbody>
</table>

*All benefits and results are based on actual test results. Results may vary according to concrete mix designs, Hycrete W500 dosage, or other factors.

**GENERAL PROPERTIES AND CHARACTERISTICS**

**Physical characteristics:**
- **Form:** Liquid
- **Specific gravity:** 1.05
- **Chloride content:** Nil
- **pH:** 8.5

**Compatibility:**
- Most concrete admixtures
- Most Portland cements or replacements including fly ash and GGBS (slag)
- Shotcrete mixes and application
- Most surface-applied sealants and external membrane protection systems

**Recommended dosage:**
1.0 U.S. gallon per cubic yard of concrete (5.0 liters per cubic meter)

**Packaging:**
- 1 gallon bottles; 5 gallon pails; 55 gallon drums; 275 gallon totes; bulk tanker delivery

**Storage and handling:**
Store above 32°F (0°C) and below 120°F (48°C). Slight flocculation can occur over time due to pH reductions. Such flocculation does not affect product performance

**NOTES**
- For air-entrained concrete mixes see Hycrete W502 data sheet. Hycrete W502 is specifically designed for air-entrained concrete mixes.
- User should perform trial mixes prior to placement and make necessary adjustments to the mix design as needed.
- If considering dosages other than recommended dosage, contact Technical Services before use.

**SAFETY**
Hycrete W500 is a water-based material and should not be swallowed or come into contact with skin or eyes. Wear suitable protective gloves and goggles. If material comes in contact with the skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with sufficient water and seek medical support. If swallowed, seek immediate medical attention. For further information please consult the Material Safety Data Sheet.

**RELATED DOCUMENTS**
- Hycrete Mixing Instructions
- Hycrete Material Safety Data Sheet – Hycrete W500
- For air-entrained concrete mixes see Hycrete Data Sheet - Hycrete W502

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