**EUCON 727**

**WATER REDUCING AND SET RETARDING ADMIXTURE**

**Description**

EUCON 727 is a water reducing and set retarding admixture for concrete. Specifically formulated with strong set retarding and strength enhancing ingredients that ensure better developed strength and durability for concrete. EUCON 727 contains no added chlorides or chemicals known to promote the corrosion of steel and is particularly suited for warm weather conditions and concrete mixes with high cementitious material content.

**Features/Benefits**

- Reduces water requirements from 4 - 8% depending on dosage and cementitious material characteristics.
- Synergistic properties when used in conjunction with EUCON WR-75, EUCON WR or EUCON DX
- Helps to control concrete setting time in hot weather.
- Has a mostly neutral effect on air content
- Extends initial setting time of concrete
- Generally increases compressive strengths from 15 - 25%

**Technical Information**

Performance Data

The following test results were achieved using typical ASTM C 494 mix design requirements, 517 lb/yr$^3$ (307 kg/m$^3$) cement content and similar (± 0.5)% air content. These results were obtained under laboratory conditions with materials and mix designs meeting the specifications of ASTM C 494. Changes in materials and mix designs can affect the dosage response of EUCON 727.

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**Eucon 727 Compressive Strength Data (MPa)**

<table>
<thead>
<tr>
<th></th>
<th>3 Day</th>
<th>7 Day</th>
<th>28 Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference</td>
<td>16.1</td>
<td>21.1</td>
<td>30.6</td>
</tr>
<tr>
<td>2.5 oz/cwt</td>
<td>20.1</td>
<td>26.3</td>
<td>38.7</td>
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</tbody>
</table>

**Eucon 727 Set Time Results (hr:min)**

<table>
<thead>
<tr>
<th></th>
<th>Reference</th>
<th>2.5 oz/cwt</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Day</td>
<td>7:43</td>
<td>4:29</td>
</tr>
<tr>
<td>7 Day</td>
<td>4:29</td>
<td>3:36</td>
</tr>
<tr>
<td>28 Day</td>
<td>7:12</td>
<td>4:48</td>
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Packaging
EUCON 727 is available in bulk as well as in containers of 1000, 205 or 20 L.

Shelf Life
1 year in original, unopened package.

Specifications/Compliances
• ASTM C494 Type D.
• Approved by the Quebec and Ontario Ministry of Transportation.

Directions for Use
EUCON 727 should ideally be introduced in the mix a few seconds after the water reducer or cementitious-water contact if used without another water reducer. This will ensure a better reaction with the cementitious material particles and then maximize the retardation effect. It should not be in direct contact with dry cement. Always add independently of other admixtures.

The dosage varies upon the desired effect, the cementitious material (quantity, type and source), concrete and ambient temperatures. Also, the dosage could vary if EUCON 727 is used in conjunction with another water reducing admixture.

Set retarding, Type D : 130 mL/100 kg of cementitious material.

Example: Addition rate of 50 mL/100 kg of cementitious material of EUCON 727 in a concrete mix that already contains a water reducer can retard setting time from 1 to 3 hours, depending on the characteristics of the cementitious material. EUCON 727 used alone at a dosage of 175 mL/100 kg of cementitious material will extend setting time for 2 to 3 hours when compared to a mix without any admixture, depending on the characteristics of the cementitious material.

The effect of the total dosage should be verified with a trial mix prior to job site pours. Contact your EUCLID representative to get more information for the use of EUCON 727.

Precautions/Limitations
• Keep EUCON 727 from freezing
• Do not dispense onto dry cement
• EUCON 727 is not W.H.M.I.S. regulated
• In all cases, consult Safety Data Sheet before use