RWC CSA/Cement
(Calcium Sulpho Aluminate Cement)
Product Data Sheet.

NOW Cement in minutes
NOT in Days

RWC CSA/Cement,
Calcium Sulpho Aluminate Cement CSA/Cement, or Calcium Sulpho Aluminate Cement, is a base of CSA clinker and also known as CSA Binder grinded with proportioned Anhydrite and hydraulic cementitious mineral blend high in C4A3S (Calcium Sulpho Aluminate Crystals) yield in a very early and strong cementitious matrix.

RWC CSA Cement has 60% More strength in 1 day that any other USA producer

Applications
RWC CSA/Cement can be used as binder in many constructions Product as follows:

- Self leveling needing High early Strength.
- Rapid repair mortars & stop leaking materials.
- Concrete repairs for Highways, bridges, runways when fast setting and early strength needed for traffic reopening.
- Precast concrete when fast demolding is needed.
- Fast setting tiles adhesive and non shrinking grout etc...
- Water tanks, Sewers etc.. Requiring High Sulfate Resistance.
- Lower Temperature concrete work.
- Shotcrete, Gunite and Stucco.
- High Sulfate resistance work.
- Anchor Bolt Grout.
QUALITY

RWC CSA/Cement is produced using the latest technology in Cement Production and using carefully selected Limestone and bauxite, after the raw mix is ground to the required finesse, the clinker is produced in the kiln. Then it is ground in a Cement Mill to produce RWC CSA/Cement.

RWC CSA/Cement is light grey in Color. RWC CSA/Cement does not contain crystalline silica. Very High Early Strength is a fundamental of RWC CSA/Cement

Physical Properties

<table>
<thead>
<tr>
<th>Strength</th>
<th>6 hours</th>
<th>8 hours</th>
<th>12 hours</th>
<th>24 hours</th>
<th>3 days</th>
<th>7 days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥ 25 mpa</td>
<td>≥ 35 mpa</td>
<td>≥ 45 mpa</td>
<td>≥ 60 mpa</td>
<td>≥ 65 mpa</td>
<td>≥ 70 mpa</td>
</tr>
<tr>
<td></td>
<td>≥ 3500 psi</td>
<td>≥ 5,100 psi</td>
<td>≥ 6,500 psi</td>
<td>≥ 8,500 psi</td>
<td>≥ 9,500 psi</td>
<td>≥ 10,000 psi</td>
</tr>
</tbody>
</table>

RWC CSA/Cement has a good tested Strength on 1.5h and 3h, but as it is too fragile, we do not prefer to list it. RWC CSA/Cement average Initial Set time is 15 minutes, and the final set time is averaged at 25 minutes.

CONCRETE MIX DESIGN

Concrete Mix design using RWC CSA Cement needs to be varied to suit Individual application, it is recommended that trial mixes to be carried out prior to commencement of work to ensure that the mix design and material combinations meet the Requirements of the specifications of the particular application.

PACKAGING & SHELF LIFE

RWC CSA Cement is packaged in a specialty bag to protect it from humidity. However, as with all hydraulic Cement, it is recommended that RWC CSA Cement is not placed outdoors or in direct contact with the ground. When correctly stored in dry conditions, the properties of RWC CSA will remain within specification limit for at least 6 months. In most cases, its properties will be retained for over a year. RWC CSA Cement is available in 50 Lbs bags, Super Sack and in Bulk.

ROYAL WHITE CEMENT INC LIMITED WARRANTY

RWC warrants that this product, at the time of shipment, conforms to the Specifications set forth in section 2 of this Product Data Sheet. All other information provided in this Product Data Sheet is for guidance only. ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. RWC sole obligation and the sole and exclusive remedy under this limited warranty shall be the replacement of any nonconforming product, or, at RWC option, the refund of the purchase price. No warranty is given for any technical advice or recommendations provided by RWC. Buyer waives all claims under this limited warranty unless it has given written notice of nonconformity within 30 days of delivery.