SUPERFINE is a blast furnace slag based ultrafine cementitious grout material with a $D_{95}$ particle size of 10 micron and a $D_{50}$ of 3 micron. It is able to permeate very small openings such as pores and microscopic rock fissures, and improve strength and reduce permeability.

**PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>3.00 g/cm³</td>
</tr>
<tr>
<td>Particle Size $D_{95}$</td>
<td>10 micron</td>
</tr>
<tr>
<td>Particle Size $D_{50}$</td>
<td>3 micron</td>
</tr>
<tr>
<td>Initial Set Time</td>
<td>8 - 16 hours</td>
</tr>
<tr>
<td>Final Set Time</td>
<td>10 - 22 hours</td>
</tr>
<tr>
<td>Bleeding in 2 hrs</td>
<td>1 - 3%</td>
</tr>
<tr>
<td>UCS ($\sigma_3$)</td>
<td>21.9 N/mm²</td>
</tr>
<tr>
<td>UCS ($\sigma_7$)</td>
<td>37.8 N/mm²</td>
</tr>
<tr>
<td>UCS ($\sigma_{28}$)</td>
<td>52.4 N/mm²</td>
</tr>
</tbody>
</table>

*UCS measured in accordance with JIS-R5201

**ADVANTAGES**

Excellent Permeability
Non-Toxic Cementitious Grout
Long Term Durability
High Strength

**APPLICATIONS**

Pre- and post-excavation grouting
Water cut-off grouting
Dam grout curtain
Soil consolidation
Stabilization of structure foundation

**TRACK RECORDS**

Seikan Subsea Tunnel (Hokkaido, Japan)
Pirika Dam (Hokkaido, Japan)
Amtrak Bridge pier (North Carolina, USA)
Arrowhead Tunnels (California, USA)
Lake Mead (Nevada, USA)
Perth Rail (Perth, Australia)

**FUNCTION**

Rock fissure grouted with SUPERFINE

**PACKAGE**

20kg (44lb) NET P.E. bag
1MT (2204lb) NET Jumbo bag