

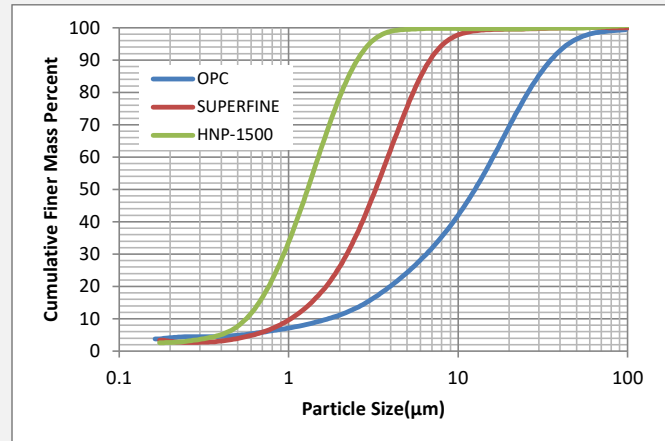
**SUPERFINE** is a blast furnace slag based ultrafine cementitious grout material with a  $D_{95}$  particle size of approximately  $10\mu\text{m}$ . It is able to permeate very small gaps such as voids in the ground and microscopic rock fissures, and improve strength and reduce permeability.

### PROPERTIES

Specific Gravity	: 3.00 g/cm <sup>3</sup>
Particle Size $D_{95}$	: 10 $\mu\text{m}$
Particle Size $D_{50}$	: 3 - 4 $\mu\text{m}$
Initial Set Time	: 8 – 16 hours
Final Set Time	: 10 - 22 hours
Bleeding in 2 hours	: 1 - 3%
UCS ( $\sigma_3$ )	: 25.7 N/mm <sup>2</sup>
UCS ( $\sigma_7$ )	: 34.3 N/mm <sup>2</sup>
UCS ( $\sigma_{28}$ )	: 60.1 N/mm <sup>2</sup>

\*UCS measured in accordance with JIS-R5201

### PARTICLE SIZE DISTRIBUTION



### 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)

### ADVANTAGES

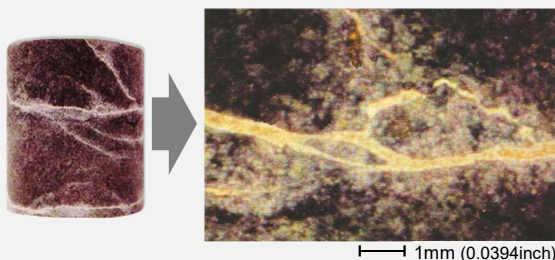
- Excellent Permeability
- Eco-friendly Cementitious Grout
- Long Term Durability
- High Strength

### PACKAGE

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

### FUNCTION

Rock fissure grouted with SUPERFINE



### CERTIFICATION

NSF/ANSI 61 - NSF International

