

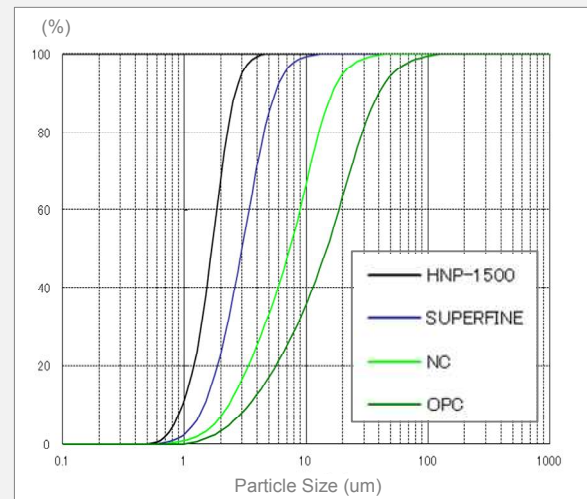
SUPERFINE is a blast furnace slag based ultrafine cementitious grout material with a  $D_{95}$  particle size of 10 micron and a  $D_{50}$  of 3 micron. It is able to permeate very small openings such as pores and microscopic rock fissures, and improve strength and reduce permeability.

### PROPERTIES

Specific Gravity	: 3.00 g/cm <sup>3</sup>
Particle Size $D_{95}$	: 10 micron
Particle Size $D_{50}$	: 3 micron
Initial Set Time	: 8 - 16hours
Final Set Time	: 10 - 22 hours
Bleeding in 2 hrs	: 1 - 3%
UCS ( $\sigma_3$ )	: 21.9 N/mm <sup>2</sup>
UCS ( $\sigma_7$ )	: 37.8 N/mm <sup>2</sup>
UCS ( $\sigma_{28}$ )	: 52.4 N/mm <sup>2</sup>

\*UCS measured in accordance with JIS-R5201

### PARTICLE SIZE DISTRIBUTION



### ADVANTAGES

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

### APPLICATIONS

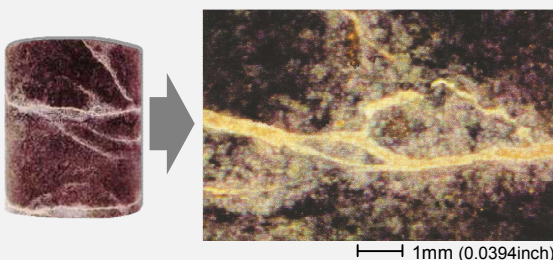
- Pre- and post-excavation grouting
- Water cut-off grouting
- Dam grout curtain
- Soil consolidation
- Stabilization of structure foundation

### 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