Lithium Silicates

PRODUCTS

**LITHISIL® 25**
Lithium Silicate
2.5% Li₂O, 20.5% SiO₂
% Solids = 23.0%
Weight Ratio = 8.2
Molar Ratio = 4.1
pH = 10.8
Specific gravity = 1.20
Density = 24.2°Bé
Viscosity = 20 cp

**LITHISIL® 829**
Potassium/Lithium Silicate
8.2% K₂O, 1.0% Li₂O, 20.5% SiO₂
% Solids = 29.7%
Weight Ratio = 2.5
Molar Ratio = 3.9
pH = 11.7
Specific gravity = 1.26
Density = 30°Bé
Viscosity = 34 cp

FEATURES & BENEFITS

- Lithium Silicate forms a stable **high ratio, low viscosity** solution.
- Once dried, Lithium Silicate is relatively **insoluble** compared to Potassium and Sodium Silicates.
- **Efflorescence Scale**: Li < K < Na
- **Refractoriness**: Lithium Silicates have higher melting points and may change the refractory properties of Sodium and Potassium Silicates.
- **Adhesion**: Addition of Lithium Silicate to Sodium or Potassium Silicates may improve the adhesion to various different surfaces.

POTENTIAL APPLICATIONS

- Concrete surface treatment
- Concrete admixture
- Coatings, usually as part of the binder system
- Welding rod binder additive
- Refractory applications
- Flame retardant
- Ceramics, glazes