

XEOLITH® LS450

Potassium Lithium Silicate

Product Description:

XEOLITH® LS250 Potassium Lithium Silicate is an aqueous polysilicate blend solution with a molar ratio of 3.9 (ranging 3.8 - 4.0). The unique composition helps improve interaction and compounding characteristics when formulating coatings, sealers and specialty treatments.

The reactive silicate forms a stable, low viscosity solution that results in lower levels of water in coatings. This can dramatically improve film formation, water resistance, corrosion resistance, abrasion resistance, hardness and bonding properties for many applications, including concrete surface treatments, specialty paints and coatings.

Applications:

XEOLITH® LS250 Potassium Lithium Silicate is used as an additive in paints, coatings and primers as it acts as a sealer and densifier for a variety of surfaces including marine environments. It can be used in refractory applications, flame retardants and ceramics.

Chemical Formula:

$K_2Li_2SiO_4$

Specifications:

Parameters (units)	Typical specifications
Specific gravity, at 25 °C	1.26 – 1.27
Density, °Baume (kg/m ³)	30.00
Total solids (%)	29.00 – 30.12
Silicon dioxide content (%)	20.0 – 20.60
Lithium oxide content (%)	1.0 – 1.02
Potassium oxide content (%)	8.0 – 8.50
Weight ratio (SiO ₂ /K ₂ O)	2.40 – 2.60
Molar ratio (SiO ₂ /K ₂ O)	3.8 – 4.0
Viscosity, at 25 °C (cps)	33 – 35
VOC (g/L)	≤ 50
Freezing point (°F / °C)	33 / 0

Packaging:

Product is packaged and shipped in 55-gallon polyethylene drums or 275-gallon IBC totes.

Storage:

Product should be stored in a cool and dry place away from direct sunlight in sealed, original containers. Providing the product is kept in original packaging, the shelf life is 12 months. For further safety information refer to product SDS available from your Bisley and Company contact.

Disclaimer:

This document is for information purposes only. Customers are responsible for testing and confirming the suitability of this product in their application. To the extent permitted by law, no warranty as to merchantability or fitness of purpose, expressed or implied, is made.