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## ZYP KERALON Coatings

Manufactured by ZYP exclusively for Pyrotek®

### Oil-Based Coatings and Lubricants

ZYP KERALON are oil-based coatings with ceramic additives. Each coating is suitable for up to 1000°C (1832°F). The coatings have been formulated to cover all types of ladles and provide protective coatings against molten aluminium and its alloys, slags and drosses.

**KERALON.** An adherent, protective coating to surfaces that can act as a dry film lubricant after the oil evaporates, vapourizes or oxidizes.

**KERALON L.** Similar to KERALON, but contains boron nitride for a better non-wetting and release properties.

**KERALON LS.** Similar to KERALON L, but uses a water-soluble oil for easy clean-up and is designed for air-spray application.

#### Key Attributes

- KERALON L and LS are formulated with boron nitride for improved non-wetting performance
- Extends ladle life and reduces downtime
- KERALON and KERALON L's methylated seed oil (MSO) carrier has a flash point of 175°C (347°F)
- Minimal smoking and no flames
- Lubricity and non-reactivity with ferrous and nonferrous metals up to 1000°C (1832°F)
- Non-sticking/wetting with molten nonferrous metals
- Resistant to thermal shock

#### Ideal Use

- Exposed metal belts, conveyors, chains, rollers, hinges, bolts and screws
- Sealing heater cartridges
- Ladles. Coatings are formulated to protect ladles from oxide and dross adhesion in difficult piston and silicon aluminium alloys

#### Safety Information

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.



#### Specifications

##### Active Ingredients

**KERALON:** Graphite, titanium dioxide  
**KERALON L:** Graphite, titanium dioxide and boron nitride  
**KERALON LS:** Graphite, titanium dioxide and boron nitride

##### Specific Gravity

**KERALON:** 1.25  
**KERALON L:** 1.14  
**KERALON LS:** 1.02

##### Colour

**KERALON/KERALON L:** Light grey  
**KERALON LS:** Grey

##### Liquid Carrier

**KERALON/KERALON L:** Methylated seed oil (MSO)  
**KERALON LS:** Water soluble oil and water

##### Brookfield Viscosity (cps)

**KERALON @4/12:** >30,000  
**KERALON L @4/12:** 30,000–35,000  
**KERALON LS @3/60:** 700–900

##### Maximum Use Temperature

1000°C/1832°F

##### Shelf Life

Typically 12-plus months

##### Coverage—m<sup>2</sup>/gal (ft<sup>2</sup>/gal)

9–37 (100–400)

##### Substrate Use

RFM®, fused silica, cast iron  
(can be used on most substrates)

#### Use Notes

1. Remove any oil, dirt, scale or other contaminants from the surfaces being coated.
2. If required, dilute KERALON/KERALON L with canola oil ONLY (do not use water).
3. Apply KERALON/KERALON L with a 25 millimetre (1 inch) "parts cleaning" wood-handled brush. Apply KERALON LS with equipment that is similar to an ITW-DeVilbiss® Gravity Feed Spray Gun. Each can be applied to surfaces with temperatures up to 121–177°C (250–350°F)
4. Dry the coated equipment thoroughly before use.
5. Clean up any coating spills and tools with soap and water.

#### CAUTION: DO NOT CONTACT WET COATINGS WITH MOLTEN METAL.

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