



# KILN SEAL

## USER BENEFITS:

- **HELPS CONTROL HEAT & MOISTURE**
- **PROTECTS**
- **LOWERS FUEL COSTS**
- **SPEEDS CURING**
- **EASY TO APPLY**

KILN SEAL is an asphalt based material which provides a tough, heat-holding film and long-lasting barrier against moisture and heat in lumber dry kilns. KILN SEAL is used to prevent the deterioration of dry kiln walls, ceilings and decking; to help ensure proper moisture level; to help maintain heat control. It is designed to be used over masonry, wood, and metal surfaces.

## KILN SEAL Helps Control Heat and Moisture

Lumber is processed in dry kilns to remove excess moisture. High heat is used for this process. Temperatures in the dry kiln average 80°C. The vapor pressure of water at this temperature is 3.5 kg per square inch. The difference in pressure between the inside and outside of the dry kiln causes heat and moisture to squeeze through the walls, doors, etc. KILN SEAL provides a rugged barrier to help control heat and moisture loss within the dry kiln.

## KILN SEAL Protects

Heated air laden with moisture rises to the ceilings in dry kilns. KILN SEAL retards this moisture from penetrating the ceiling, walls and decking of dry kilns. By minimizing decay and rot in wood roofs and decking, KILN SEAL substantially reduces expensive structural repairs or replacements. Proper application



*The interiors of dry kilns are effectively sealed and lumber is processed more quickly and uniformly when the dry kiln is coated with KILN SEAL.*

of KILN SEAL is beneficial in helping keep dry kilns operating efficiently and continuously.

## KILN SEAL Lowers Fuel Costs

KILN SEAL forms an air-resistant, moisture and waterproof barrier. Controls outside air from coming through and retards moisture and heat from escaping. Steady heat is maintained, affecting savings in fuel costs.

## KILN SEAL Speeds Curing

Heat and moisture ratios within dry kilns are more easily and effectively controlled with KILN SEAL. With a steady temperature maintained, lumber is cured more rapidly, steadily and efficiently.

## KILN SEAL Is Easy To Apply

KILN SEAL is ready to apply directly from the container. No mixing or thinning required. It can be applied by brush, roller or spray to interior walls, decking and ceiling. KILN SEAL should **not** be applied to fans, fan blades, thermostats or other mechanical operating parts. It is **not** recommended for use in brick or tile processing kilns.

**APPLICATION GUIDELINES:** KILN SEAL has penetrating properties that aid in creating an effective vapor barrier. For that reason, coverage rates vary depending on the porosity of the surface KILN SEAL is applied to. The following rates are guidelines only.

**NON-POROUS SURFACES (Aluminum or Other Metal):** 6-8 Litres per 100 square feet.

**MODERATELY POROUS SURFACES (Concrete Block or Brick):** 7-8 Litres per 100 square feet.

**VERY POROUS SURFACES (Haydite or Cinder Block):** 8-9 Litres per 100 square feet.

If possible, leave kiln open and inoperative for 48 hours to allow product to fully cure. If kiln must be used sooner, small superficial blemishes may develop on the sealed surface and dripping may occur. However, KILN SEAL's unique self-healing properties will maintain the integrity of the vapor barrier.

## SPECIFICATIONS

### KILN SEAL

Product Code # 3190

Use: The tough, heat-holding film provides a long lasting barrier against moisture and heat in lumber dry kilns. Designed to be used over masonry, wood and metal surfaces

Color: Black

Dry Mil Thickness: 22.4 mils at 8 Litres per 100 square feet

Resistant To: Mild acids and Bases, Corrosion, Water and Water Vapor and sunlight

Weatherability: Good in Arid, Tropical and Cold Climates

Application: Brush, Spray or Roller

#### Physical Requirements:

API Gravity at 60° F.	17.7
Specific Gravity at 60° F. (ASTM D-70)	0.948
Weight per Volume at 60° F. (ASTM D-88)	7.897 lbs./gal.
Viscosity, Saybolt Furol at 122°F.	150 - 250
Flash Point, PMCC (ASTM D-93), Min.	40°C (105°F)
Non-Volatiles: 1 gm/3 hrs. 221°F., % by Weight	70
Phosphorous (as P <sub>2</sub> O <sub>5</sub> ), % by wt.	35.0

The moisture and vapor barrier properties of KILN SEAL are actually increased by the approximate 80°C heat used in most Lumber Dry Kilns.

Handling Information: For safe handling of the product, read the Safety Data Sheet (SDS).



**CANADA**

**TEXAS • ONTARIO • SASKATCHEWAN**

**Phone: 800-827-0711 • www.texasrefinery.ca**

**PRINTED 10/2015**