



Using MOLYKOTE® BR-2 Plus Multi-Purpose Grease quadruples kiln seal replacement service life for customer

Lubricant application story: Sliding runners

MOLYKOTE® product
MOLYKOTE® BR-2 Plus
Multi-Purpose Grease

Market segment
Cement

Component/application
Sliding runners

Major market
Maintenance, repair &
overhaul (MRO)

Customer's area of concern

Customer's description of component
Kiln flexible sealing

Previous solution/product previously used
Lithium-based grease with EP additives

Operational parameters (LETS)

Load
High, with shock loading

Environment
Outdoors; dusty

Temperature
-40 to +130°C

Speed
Up to 1.5 m/s

Process description
Centralized lubrication system (lubrication onto the sliding surface)

Customer's critical requirements

Problem category

Wear/failure

Problem details

The grease was quickly oxidizing from constantly being heated to +130°C and being exposed to coke dust. There was wear on the contacting plate. As a result, the kiln seal was failing, resulting in coke being emitted into the atmosphere.

Root-cause analysis

The previously used grease (with EP additives) didn't withstand the higher temperatures or abrasive dust particles.

MOLYKOTE® *Smart Lubrication*™ solution selected

Our product/differentiators

Our product provided good adhesion, wear and corrosion protection, and long-term stability, and it contains solid lubricants. It provides resistance to degradation from constant heating and is suitable for long-term lubrication. Solid lubricants form a thin film on contacting surfaces, reducing their wear.

Result: Our solution

When using grease with solid lubricants, the seal replacement service life was extended from six to 24 months, reducing maintenance, downtime and equipment costs.

Learn more: Contact us

To learn more about the advantages of using MOLYKOTE® BR-2 Plus Multi-Purpose Grease on kiln seals – or for other tough lubrication challenges – contact your MOLYKOTE® technical representative or visit [molykote.com](https://www.molykote.com).



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