

LOCTITE®

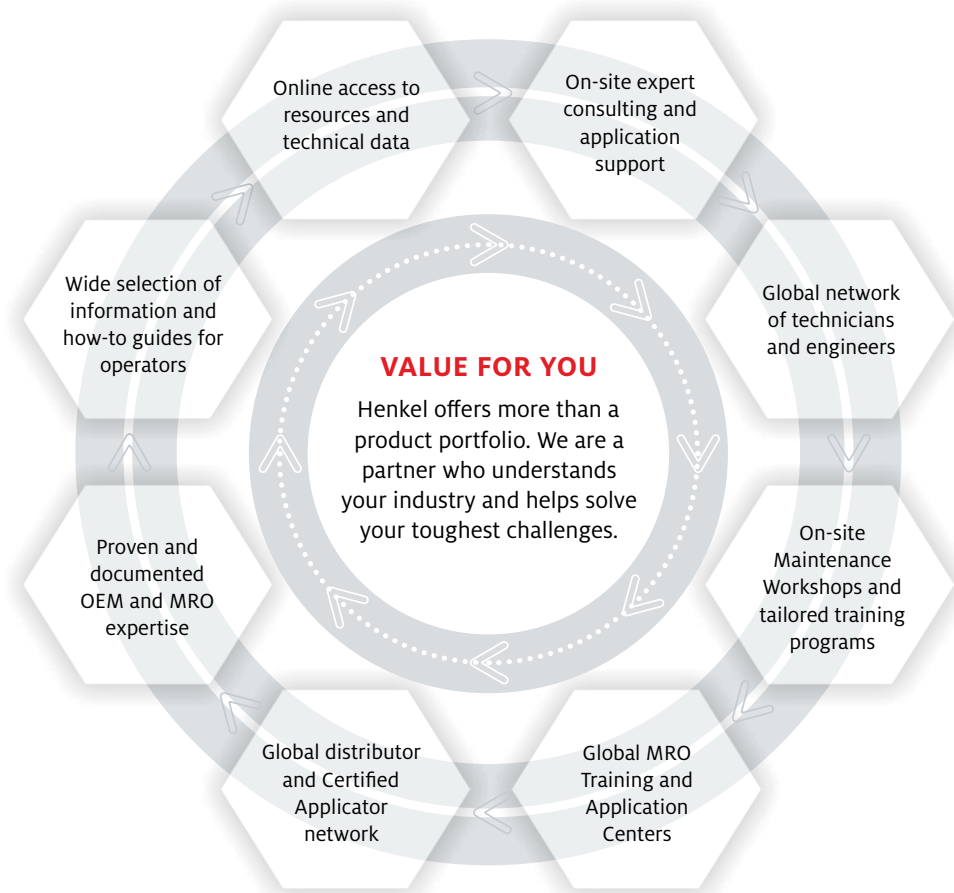
Maintain, Repair, Rebuild, Protect
Solutions for Cement Plant Maintenance



Henkel

Henkel. Solutions for all your maintenance challenges

Maintain. Repair. Rebuild. Protect.



On-Site Consulting

Plant surveys analyze your current maintenance practices and culture, and recommend improvements. Product analysis can help reduce the complexity of your maintenance product inventory.

Maintenance Workshops

On-site customized training will help your staff improve equipment reliability, reduce routine and redundant maintenance tasks, save energy costs, and increase productivity.

Protective Coating Solutions

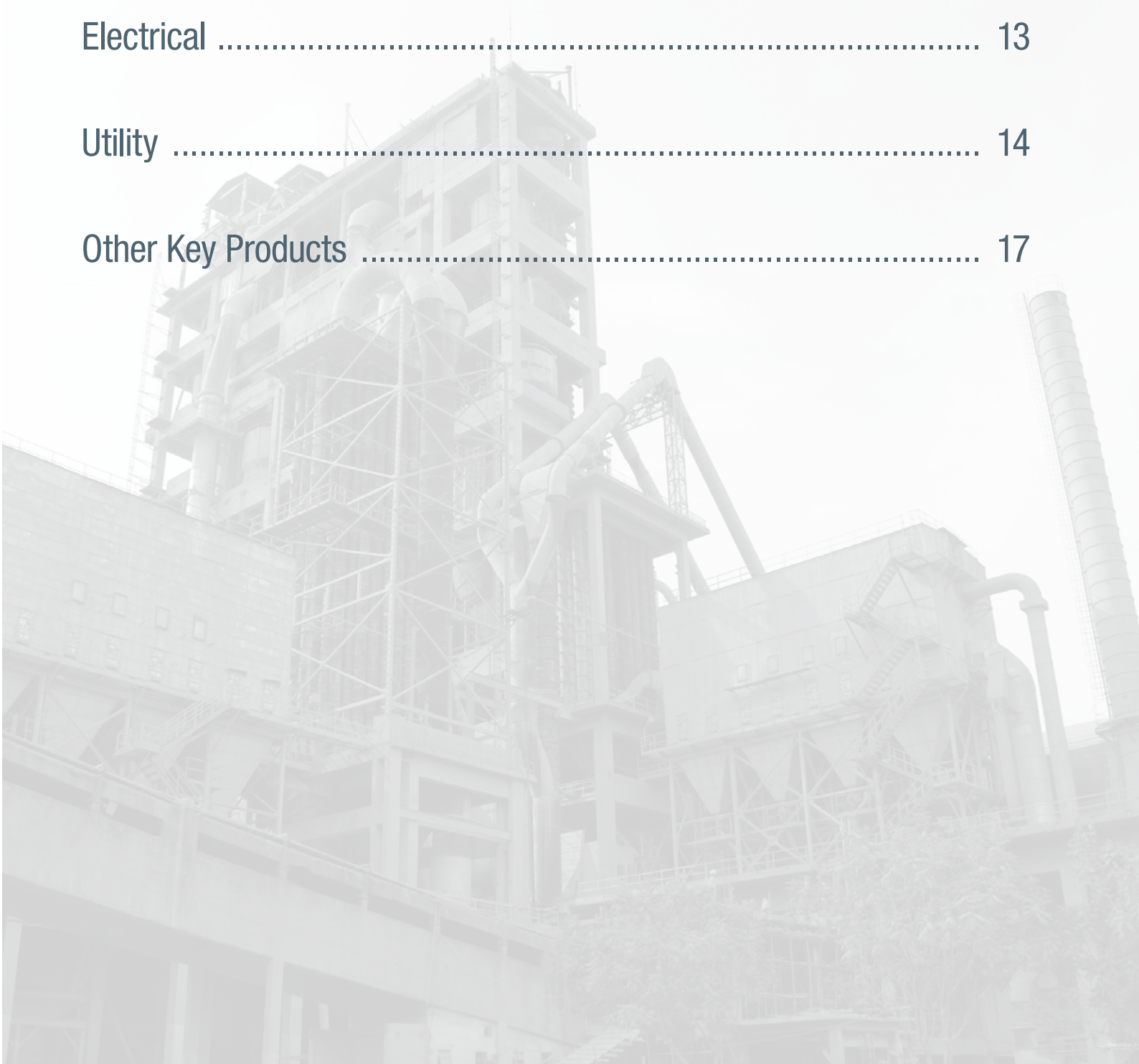
Our experts will show you how to identify and apply the proper surface-protection coatings to keep your assets up and running. We can also recommend Henkel Certified Applicators who specialize in these repairs.

Industry Maintenance Guides

Our in-depth programs offer solutions for rebuilding and maintaining key industrial devices such as pumps, shafts, gearboxes, and centrifuges.

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Cement Mill / Coal Mill / Raw Mill

Rebuild worn out conveyor belts

YOUR CHALLENGE

Mechanical clips get worn out & hole is created on the carry cover of the belt.

OUR SOLUTION

LOCTITE PC 7350 Conveyor Belt Repair Kit

BENEFITS

- Excellent adhesion to metal & rubber
- Easy application, flowable (spreads easily)
- Quick repair
- Excellent flexibility



Fill gaps between liner and backing plate of crusher

YOUR CHALLENGE

Gap between liner and backing plate.

OUR SOLUTION

LOCTITE PC 9020i High Performance Backing Compound

BENEFITS

- 100% solid epoxy system for backing worn metal in gyratory crusher
- High volumetric stability that eliminates formation of gaps between backing and liners
- High compressive strength



Protect the apron feeder structure

YOUR CHALLENGE

Corrosion of feeder structure due to corrosive nature of limestone.

OUR SOLUTION

Polypoxy PS

BENEFITS

- 100% solid coating with good corrosion & chemical resistance
- Excellent UV resistance



Protect the dumper wheel rim

YOUR CHALLENGE

Dumper rim gets corroded due to moisture content in air. Can lead to breakage of the rim, causing safety issue & breakdown.

OUR SOLUTION

LOCTITE PC 7333 Brushable Ceramic

BENEFITS

- Excellent corrosion & erosion protection
- Reduced down time
- Increased safety
- No air loss due to leakage in rim



Broad Product Range

From threadlockers and thread sealants to protective coatings, our LOCTITE brand provides solutions for every challenge.

visit www.henkel-adhesives.com/in

Cement Mill / Coal Mill / Raw Mill

Repair worn AHP bend pipes

YOUR CHALLENGE

Fly ash handling bend pipes get eroded and punctured at the bend due to flow of fine particles. Frequent repairing of bends to arrest the leakages increases cost.

OUR SOLUTION

LOCTITE PC 7226 Pneu Wear

BENEFITS

- Excellent resistance to fine particle abrasion, extends equipment life
- Non-sag property suitable for vertical and over-head surfaces
- Has working temperature upto 120°C



Protect silo air slide duct

YOUR CHALLENGE

Due to improper sealing, the ducts leak, creating energy loss and dusty, unsafe environments.

OUR SOLUTION

LOCTITE SI 587 / LOCTITE SI 596

BENEFITS

- LOCTITE silicone sealant has the capacity to fill gap up to 6.3 mm
- Seals the uneven surfaces of the duct



Protect separator tie rod

YOUR CHALLENGE

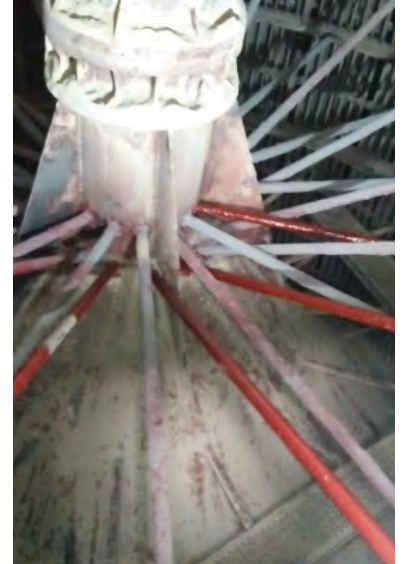
Tie rod erodes due to direct contact with fine cement particles after roller crushing and causes wear of the equipment.

OUR SOLUTION

LOCTITE PC 7226 Pneu Wear

BENEFITS

- Product can be applied in difficult cross-sections with cold working procedure
- Easy and safe application procedure
- Reduces downtime



Protect coal mill inlet hub

YOUR CHALLENGE

Inlet hub of coal mill has inner cone made of wear plates. During process, inner cone gets worn out and material spreads on mill hub area, wearing it out.

OUR SOLUTION

LOCTITE PC 7226 Pneu Wear,
LOCTITE PC 7333 Brushable Ceramic

BENEFITS

- Excellent resistance to fine particle abrasion
- Reduced replacement cost of wear plates
- Suitable for vertical application
- Reduces downtime



Additional Solutions

To see more solutions for corrosion protection and fastener loosening, contact your Henkel representative or visit our website.

visit www.henkel-adhesives.com/in

Cement Mill / Coal Mill / Raw Mill

Bond VRM grit cone

YOUR CHALLENGE

Coal mill cone is worn out and attached tiles debond because of pulverized coal particle striking on its surface. Cone can't be replaced due to its design, high replacement cost & difficult procedure.

OUR SOLUTION

LOCTITE PC 7363 Ceramic Tile Adhesive

BENEFITS

- Withstands shock and impact
- Non-sag paste allows application on overhead and vertical surface
- Easy to apply / in situ application
- Withstand temp up to 93°C



Protect bearing cover, bolt heads & yoke arm

YOUR CHALLENGE

Yoke arm, bearing cover and bolt heads wear out due to particle abrasion. Due to complex geometrical shapes, tiles or wear plate cannot be used.

OUR SOLUTION

LOCTITE PC 7234 High Temp Brushable Ceramic, LOCTITE PC 7339 Ultra High Temp Pneu Wear

BENEFITS

- Excellent abrasion resistance
- High temperature resistance upto 288°C



Protect wagon tippler

YOUR CHALLENGE

Structure gets corroded due to water contact. Structure loses strength due to corrosion. High cost of painting done every 6 months.

OUR SOLUTION

Polypoxy PS / LOCTITE PC 7319
Chemical Resistance Coating

BENEFITS

- Excellent corrosion resistance
- Frequent painting can be avoided
- Strength of the structure is saved
- Excellent UV resistance



Information and Resources

Maintenance guides, catalogs, case studies, additional applications
and more – just a click away.

visit www.henkel-adhesives.com/in

Kiln

Protect kiln foundation

YOUR CHALLENGE

Oil spillage due to leaks seeps inside the concrete kiln foundation which leads to loss of strength and creates unsafe environment.

OUR SOLUTION

LOCTITE PC 7319 Chemical Resistance Coating, LOCTITE SF 7840 Natural Blue - Biodegradable Cleaner

BENEFITS

- Coating will stop oil seepage into the concrete foundation
- Integral strength of the kiln foundation is protected
- Safe environment is maintained which prevents accidents due to oil



Protect pre-heater fan shaft

YOUR CHALLENGE

Pre-heater fan shaft gets worn out due to fine particle abrasion at high temperature. Shaft diameter is reduced down due to abrasion which leads to shaft failure.

OUR SOLUTION

LOCTITE PC 7339 Ultra High Temperature Pneu Wear, LOCTITE PC 7234 High Temperature Brushable Ceramic

BENEFITS

- Excellent resistance to fine particle abrasion
- Excellent adhesion to metals
- Saves cost of shaft replacement
- Shorter repair time compared to welding



Protect ESP duct dampers

YOUR CHALLENGE

Duct dampers get rapidly worn out leading to breakdown.

OUR SOLUTION

LOCTITE PC 7000 High Temperature Abrasion Resistant Coating

BENEFITS

- Three component silica based system provide excellent abrasion resistance
- Superior abrasion resistance at high temperature up to 1200°C
- Excellent adhesion to most substances like metals and concrete



Arrest false air leakage in preheater

YOUR CHALLENGE

Air ingress of fresh air lowers down the temperature of the system, resulting in more power to maintain temperature inside the system.

OUR SOLUTION

LOCTITE PC 9410 Magna Crete

BENEFITS

- Cures in few minutes at high temperatures
- Seals joints immediately
- Improves efficiency
- Sustains 1090°C
- Easy to apply



On-Site Training

Our maintenance workshops will help your staff improve safety and reliability and reduce costs.

visit www.henkel-adhesives.com/in

Kiln

Flue gas air cooler tube and tube sheet area protection

YOUR CHALLENGE

Flue gases at temperature of 600°C damage tubes leading to leakage of flue gases from joints & tube sheet area, polluting the atmosphere.

OUR SOLUTION

LOCTITE PC 7000 High Temperature Abrasion Resistant Coating

BENEFITS

- Superior bonding with the metal as well as concrete substrates
- Excellent abrasion resistance at elevated temperature
- High temperature resistance up to 1200°C
- No heat input over the equipment is required



Electrical

Seal lower turbine cover and bushing flanges

YOUR CHALLENGE

Improper gaskets leads to water entrapments. Water leakages leads to stoppage of guide vanes & loss of efficiency.

OUR SOLUTION

LOCTITE SI 587 Flange Sealant

BENEFITS

- 100% sealing ensures no more voids for air entrapments
- Flexible can take any operational jerks and movements
- No more water leakage



Protect HT / LT motor body

YOUR CHALLENGE

Prolonged corrosion of body because of saline atmosphere leads to punctures. These pin holes allow water to penetrate inside, which can damage any electrical equipment.

OUR SOLUTION

LOCTITE PC 7320 Flexible Structural Coating

BENEFITS

- Ensures electrical safety
- Increases reliability
- Increases life of equipment
- Saves cost of frequent repair



Documented Cost Savings

More than 90% of our customers realize above-target cost savings after just 4 months. Let us do the same for you.

visit www.henkel-adhesives.com/in

Utilities

Improve pump efficiency

YOUR CHALLENGE

Normal operations cause abrasion, cavitations, corrosion & erosion on metal surface and reduce life of casing and impeller. Overall pump efficiency is reduced.

OUR SOLUTION

LOCTITE PC 7333 Brushable Ceramic

BENEFITS

- Protects the surface from cavitation & turbulence
- Reduction in power consumption by 3-4%



Protect CW pipe line rust

YOUR CHALLENGE

The cooling tower pipe line is corroded due to chemicalised sprinkling water carried away by air. Epoxy paint does not last more than 12 months and metal thickness reduces regularly requiring frequent repainting.

OUR SOLUTION

Polyoxy PS

BENEFITS

- Protects surfaces from extreme chemical attack
- Turnkey project solution
- Avoid frequent painting



Enhance life of pipes

YOUR CHALLENGE

The cooling tower out let pipe is corroded and thickness reduced from 6mm to 3mm. Not possible to change the pipe since it is fixed in concrete wall.

OUR SOLUTION

LOCTITE Composite Repair System

BENEFITS

- Fast and economical alternative to pipe replacements
- No need to change the pipe / no heat input and in-situ repair
- Enhances life upto 20 years



Additional Solutions

To see more solutions for corrosion protection and fastener loosening, contact your Henkel representative or visit our website.

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Other Key Applications



Threadlockers



Thread Sealants



Gasketing Compounds



Retaining Compounds



Anti-Seize & Lubricants



Cleaners

Other Key Products

DEPARTMENT	APPLICATION AREA	APPLICATION	LOCTITE PRODUCT
Mines	Engines	Sealing of core plugs / dummy plugs	LOCTITE® 263
		Sealing of core plugs and hydraulic plugs	LOCTITE® 243
		Sealing of gear boxes, sealing of gear boxes of Komatsu heavy earth movers	LOCTITE® SI 587
	Equipment parts	Cleaning & degreasing	LOCTITE® SF 7840 Natural Blue, LOCTITE® SF 7611 Pro Strength Cleaner
		Sealing of sump	LOCTITE® SI 587
	Fasteners	Prevent seizing of nut-bolts in exhaust manifold	LOCTITE® LB 8008 C5-A Copper Anti-seize
		Removal of rusted parts, nut bolts	LOCTITE® LB 100 Maintain, LOCTITE® LB 8040 Freeze & Release
	Loaders	Locking of loader fasteners	LOCTITE® 263
	Overhead bucket lifts	Retaining bearings	LOCTITE® 609
	Pipes	All hydraulic fittings	LOCTITE® 542
		Stop leakage from various welding joints	LOCTITE® 290
	Reclaimer	Locking of bolts in reclaimer buckets	LOCTITE® 263
	Rock drilling machine	Prevent seizing of drill bits from shaft in rock drilling machine	LOCTITE® LB 8017 Moly Dry Film
	Shock absorbers	Locking of shock absorber mounting bolts in EME (dumper / dozers excavators)	LOCTITE® 263
	Simplicity feeder	Cover plates	LOCTITE® 510 / LOCTITE® 574
		Hydraulics	LOCTITE® 542
	Stackers	Locking of stacker arm bolts	LOCTITE® 263
	Vibratory screen	Threadlocking of fasteners replacing nylock nuts	LOCTITE® 270
	General / workshop	Degreasing & cleaning of various EME parts	LOCTITE® SF 7840 Natural Blue
		General repair of worn out keyways, bearing fitting	LOCTITE® 660, LOCTITE® 638, LOCTITE® 641
		Removal of old gaskets from various assemblies (e.g. gear box, flanges etc.)	LOCTITE® SF 790 Chisel Paint Stripper
		Sealing of metallic gaskets / tacking of gaskets on vertical surfaces	LOCTITE® NS 5009 Hi Tack Gasket Sealant
	Loader gearbox	Gasketing	LOCTITE® 574

Other Key Products

DEPARTMENT	APPLICATION AREA	APPLICATION	LOCTITE PRODUCT
Crusher	Degreasing & cleaning of various HME parts	Degreasing & cleaning of various HME parts	LOCTITE® SF 7840 Natural Blue
	All gear box	Gasketing	LOCTITE® 574
	Crusher body	Sealing	LOCTITE® SI 596
	Surge hopper	Repairing of hopper	LOCTITE® PC 9416 Floor Fill
	Hammer crusher / disc crusher / jaw crusher	Locking of crusher liner bolts	LOCTITE® 263
	Crusher	Retaining of crusher adapter sleeve	LOCTITE® 641
Conveyors	Auger conveyor	Threadlocking bolts	LOCTITE® 243
	Conveyor gear box	For all gear box threadlocking	LOCTITE® 263
		Sealing inspection plates	LOCTITE® 574 / LOCTITE® SI 587
	Conveyor gear box and idler drum	Locking inspection plate bolts	LOCTITE® 243 / LOCTITE® 263
	Conveyor belt tension drums (idler drums)	Retain loosened bearings	LOCTITE® 660
Raw Mill	Magnetic separator	Locking of fasteners for magnet strips on conveyors	LOCTITE® 263
	Vibratory feeder	Locking fasteners	Size < 1" - LOCTITE® 263 Size > 1" - LOCTITE® 2047
	Solid gaskets	Bonding / sealing of gaskets	LOCTITE® SI 587
	Lubrication system	Sealing of pipe joints	LOCTITE® 542
	Reject bucket elevator	Locking fasteners of reject bucket elevator	LOCTITE® 263
	VRM	Sealing of pneumatic assembly joints for VRM roller actuation	LOCTITE® 542
	All gear boxes	Gasketing	LOCTITE® 574
	Grinding roller	Preservation coating	LOCTITE® PC 9660 Maxicoat
	Roller press shaft	Bearing seating area retention	LOCTITE® 660
	VRM	Protect segment (mounted on rollers) from seizing	LOCTITE® 660 / LOCTITE® LB 8008 C5-A Copper Anti-seize
Cement Mill	Bucket elevator	Threadlocking of bucket elevator bolts	LOCTITE® 263 / LOCTITE® 277 / LOCTITE® 262
	Gear boxes	Gasketing	LOCTITE® 574 / LOCTITE® SI 587

DEPARTMENT	APPLICATION AREA	APPLICATION	LOCTITE PRODUCT
Coal Mill	Flanges, ducts	False air sealing	LOCTITE® SI 596
Kiln	Fasteners	Prevent seizing of fasteners	LOCTITE® LB 8008 C5-A Copper Anti-seize
	Kiln tyres	Prevent seizing of tyres / foundation bolts	LOCTITE® LB 8008 C5-A Copper Anti-seize / LOCTITE® LB 8017 Moly Dry Film
	Cooler plate bolts	Locking of bolts	LOCTITE® 2420
	Cooler plates	Gap filling	TEROSON® 63 / LOCTITE® 596
	Cooler fan shaft & bearing	Retaining of bearings	LOCTITE® 638 & LOCTITE® 660
	ESP fan bearing	Retaining of bearings	LOCTITE® 638
Cooler	Cooler fan	Retaining of bearings on to the shaft	LOCTITE® 638
	Cooler plates	Threadlocking of cooler plates	LOCTITE® 263
		Cooler plate gap filling / sealing	TEROSON® 63
Packing plant	Air slide joints	Gasketing	LOCTITE® SI 595
D. G. Sets	D. G. set flanges	Sealing of crank case covers	LOCTITE® SI 587
		Sealing of oil sumps	LOCTITE® SI 587
		Sealing of air cooler covers	LOCTITE® SI 587
		Gasketing	LOCTITE® SI 596
	D. G. set fasteners & core plugs	Anti-seize in exhaust-manifold nut bolts	LOCTITE® LB 8008 C5-A Copper Anti-seize
Various	Removing of light carbon in various areas of D. G. sets	LOCTITE® SF 7039 Electrical Contact Cleaner	
Electrical	Rebuilding of housing	Repair of LT motor housing	LOCTITE® 660+ LOCTITE® EA 3478 Superior Metal
	Retaining	Retaining of bearings	LOCTITE® 638
	Terminal box	Terminal box sealing	LOCTITE® SI 587
	Foundation bolts	Threadlocking of motor foundation bolts	LOCTITE® 263
	End cover sealing	End cover sealings	LOCTITE® SI 587
	Motor shaft & bearing	Retaining of bearings	LOCTITE® 641, LOCTITE® 638

Other Key Products

DEPARTMENT	APPLICATION AREA	APPLICATION	LOCTITE PRODUCT
Compressor	Compressors	Sealing air end connections	LOCTITE® 577
		Locking of fasteners	LOCTITE® 243 / LOCTITE® 262
		Gasketing of flange joints	LOCTITE® 574
Workshop & Utilities	Electric motors	Retaining of bearings in end cover	LOCTITE® 638 / LOCTITE® 660
		Removing gaskets of motor windings	LOCTITE® SF 790 Chisel Paint Stripper
	Gear box	Flange bolts	LOCTITE® 243
		Gasketing of flanges of gear boxes	LOCTITE® SI 587
		Removal of gaskets	LOCTITE® SF 790 Chisel Paint Stripper
		Retaining of gear on to prime mover (motor) shafts (along with keyways), retaining of bearings	LOCTITE® 638
		General repair of worn out keyways	LOCTITE® 660
		Flange bolts	LOCTITE® 263
		Gasketing of flanges of gear boxes	LOCTITE® 574, LOCTITE® 518, LOCTITE® SI 587
		Removal of gaskets	LOCTITE® SF 790 Chisel Paint Stripper
	Damaged floor repairing	Floor fill	
	Mechanical parts	Cleaning and degreasing	LOCTITE® SF 7840 Natural Blue
	Bolts of all machines	Opening of rusted bolts	LOCTITE® LB 100 Maintain
	Stores	Storage	Preservation / protection of critical components (for e. g. crank shaft, pipes, valves)



NEW

LOCTITE PC 7350 Conveyor Belt Repair

Improved Performance in Rubber Repair Technology

LOCTITE PC 7350, a premium rubber repair compound designed for conveyor belts and other rubber parts, is fast curing and self-leveling – making it an excellent choice for on-site repairs. Offering outstanding adhesion and abrasion resistance, repairs will have the same durability and flexibility as the rubber, increasing reliability and overall efficiency. Additional applications include but are not limited to repairing or rebuilding liners in mills, pumps, feeder bowls, hoppers, chutes, and repairing cast urethane screens and liners.



Reduce Costs



Increase Efficiency



Increase Reliability



Improve Safety

FEATURES

- Excellent abrasion resistance
- Outstanding adhesion to metal and rubber
- Excellent elongation and flexibility
- Good impact-resistance properties
- Easy to apply in both cartridge and container kit
- When correctly applied, will not interfere with belt scrapers
- Solvent-free

BENEFITS

- Reduces costly downtime
- Eliminates replacement inventory
- On-site and in-situ repairs - minimizes repair costs
- Increased repair life
- Prevents premature wear of belt splices



LOCTITE®
BONDERITE®
TECHNOMELT®
TEROSON®
AQUENCE®

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