

Maintain, Repair, Rebuild, Protect Solutions for Mines and Quarries



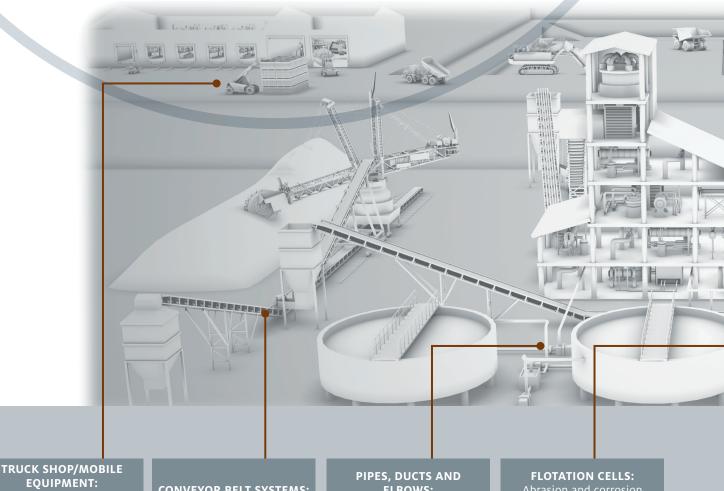
Henkel. Complete Solutions for Your Entire Mining Operation.

Repair, rebuild, maintain and protect your assets

Maximizing production and preventing unplanned downtime are critical in the mining industry. At Henkel — the leading solution provider for adhesives, sealants and functional coatings worldwide — we understand the challenges you face because we know the mining industry inside and out.

With more than **50 years of experience** in mining, we'll help you keep your plants and equipment in top operating condition. Our **LOCTITE brand** adhesives are known around the world for reliability and quality.

Let us show you how Henkel and our LOCTITE brand can help you **reduce costs, increase** reliability, and improve efficiency.

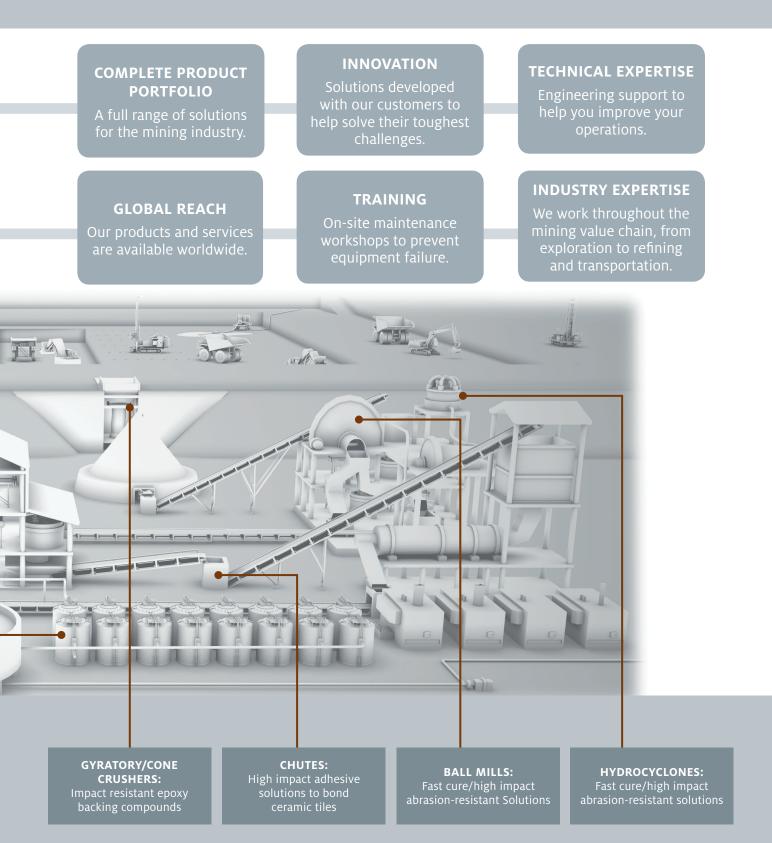


EQUIPMENT: Lubricants, cleaners and general maintenance chemical solutions

CONVEYOR BELT SYSTEMS: Fast rubber repairs PIPES, DUCTS AND ELBOWS: Abrasion and corrosion protection FLOTATION CELLS: Abrasion and corrosion protection, internal liner repairs

Why Henkel?

As the leading solution provider for adhesives, sealants, and functional coatings worldwide, we work as a partner with the mining industry.



Put Henkel's expertise to work on some of your toughest challenges:



- Improving plant *efficiency*
- Increasing equipment *reliability*
- Strengthening plant safety
- Reducing costs

SAFETY

Safety hazards from unreliable machinery, leaks and other failures

COSTS

Equipment subject to wear and corrosion; replacement costs affecting profitability

Training on use of LOCTITE products to improve reliability and reduce downtime; plant surveys to identify repair improvements

• Improved plant safety

Reduced downtime

LOCTITE products to rebuild and repair equipment; in-situ repair without interruption of operations

- Increased asset life
- Reduced replacement costs



Broad Product Range

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

Visit henkelna.com/mining

Henkel. Understanding your equipment. Solving your specific problems.

PRIMARY CRUSHER





Downtime in a mine's processing plant can mean loss of hours and money. The following pages show some common problem areas and Henkel solutions.



CHUTES



Henkel Engineering Services

Detailed in-plant surveys that identify potential cost savings and maintenance improvements.

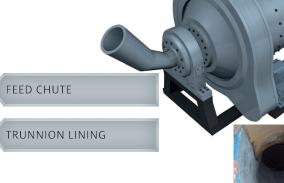
Call 1-800-LOCTITE (562.8483) or visit henkelna.com

Our LOCTITE solutions provide:

Surface protection • Abrasion resistance • Cost savings

SAG AND BALL MILLS









SLURRY PUMPS

YOUR CHALLENGE	OUR SOLUTION	BENEFITS
Repair damaged areas on rubber/ metal	ABRASION PROTECTION: Apply LOCTITE Fast Cure Wearing Compound/High Impact Wearing Compound	 Reduce MTTR Extend the operation of the pump Avoid major failures Cost savings by rebuilding expensive spare parts





Information and Resources

Maintenance guides, application videos, catalogs, case studies and more – just a click away.

Visit henkelna.com/mining

LOCI 518 FLANGE SER

Our LOCTITE solutions provide:

Surface protection • Abrasion resistance • Extended equipment life

	FLOTATION CELLS		
	YOUR CHALLENGE	OUR SOLUTION	BENEFITS
INTERNAL LINERS	Repair damaged areas over rubber liners internally	WEAR/ CORROSION PROTECTION: Apply LOCTITE Brushable Ceramic/High Impact Wearing Compound	 Reduce MTTR Reinforce areas suffering more abrasion with a high impact/high wear resistant solution Permit repairs during planned shutdowns
ROTOR STATOR	Repair damaged rubber	WEAR/ CORROSION PROTECTION: Apply LOCTITE Fast Cure Wearing Compound/High Impact Wearing Compound	 Reduce MTTR Reinforce areas suffering more abrasion with a high impact/high wear resistant solution Permit repairs during planned shutdowns
MAIN SHAFT	Protect main shaft surface against corrosion	WEAR/ CORROSION PROTECTION: Apply LOCTITE Chemical Resistant Coating	 Extend equipment life Increase MTBF
LOCTITE LOCTITE LOCTITE LOCTITE LOCTITE LOCTITE LOCTITE LOCTITE			



CONCENTRATOR PLANT

YOUR CHALLENGE OUR SOLUTION BEN	EFITS
DUCTS/ELBOWS/PIPES Protect damaged areas over rubber/ metal surfaces ABRASION PROTECTION: Apply LOCTITE Fast Cure Wearing Compound/High Impact Wearing Compound • Reduce • Extend • Avoid log shutdow	MTBF
CONCRETE REPAIR AND GROUTING Concrete in floors and chemical- contaminant areas needs to be repaired constantly due to aggressive chemical attack CORROSION PROTECTION: Appy LOCTITE High Performance Quartz and Chemical Resistant Coating products	zing ion to tion erm

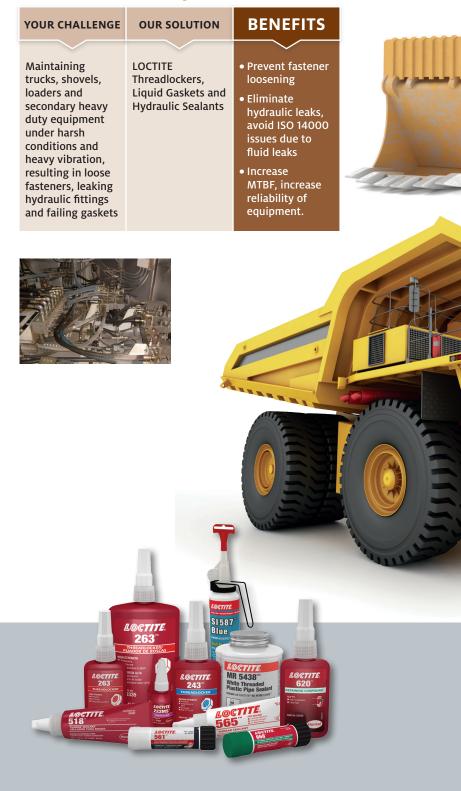
On-Site Training

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

Call 1-800-LOCTITE (562.8483) or visit henkelna.com/training

Henkel. Understanding your mobile equipment.

MOBILE EQUIPMENT





TRANSMISSION/DIESEL ENGINE

YOUR CHALLENGE	OUR SOLUTION	BENEFITS
Reduce and avoid leaks of hydraulic oil	LOCTITE Gasketing and Thread Sealing	• Increase uptime/ MTBF, avoid ISO 14000 issues
Prevent parts from loosening due to vibration Prevent spun	LOCTITE Threadlockers LOCTITE Retaining	 Increase reliability, increase MTBF
bearings Avoid failures of electrical connectors due to humidity, dust or contaminants	Compounds LOCTITE Dielectric Tune-Up Grease	







Reduce Your Costs

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

Call 1-800-LOCTITE (562.8483) or visit henkelna.com/mining

Online access to resources and technical data On-site expert consulting and application support

Wide selection of information and how-to guides for operators

> Exceptional OEM and MRO expertise

VALUE FOR YOU

Henkel offers more than a product portfolio. We are a partner who understands your industry and helps solve your toughest challenges. Global network of technicians and engineers

On-site Maintenance Workshops and tailored training programs

Global Distributor and Certified Applicator network Global MRO Training and Application Centers

Broad Solution Portfolio

From reducing wear and corrosion to sealing leaks, Henkel has a wide range of products that can solve any challenge in your facility.



LOCTITE MACHINERY ADHESIVES

- Threadlocking
- Thread Sealants
- Gasketing
- Retaining



REBUILDING, PROTECTING AND COATING

- Metal-Filled Compounds
- Concrete Repair
- Wear Resistant Coatings



BONDING AND SEALING WITH LOCTITE

- Epoxies
 - Polyurethanes
 - Instant Adhesives
 - Industrial Sealants



SUPPLEMENTARY MAINTENANCE PRODUCTS

- Cleaners
- Metal Pretreatment
- Anti-Seize and Lubricants



Henkel Partnership

Services to help you succeed



Plant Survey

A plant survey will analyze current maintenance practices and culture and offer opportunities for improvement. It can also be used to customize training workshops specific to your needs.

Date	
Time	
Place	
Contact	



Product Trials

Product trials allow you to test the performance of our products in your plant. Henkel will train your staff on the correct application methods.



Maintenance Workshop

This on-site training customized to your needs will help your staff increase equipment reliability, reduce routine and redundant maintenance tasks, improve safety, reduce energy costs, and increase productivity.



Surface Engineering Solutions

Our experts will show you how to identify and apply the proper surface protection coatings to keep your assets up and running with minimal downtime. We can also recommend Henkel Certified Applicators who specialize in these types of repairs. Date
Time
Place
Contact

Date	
Time	
Place	
Contact	

Date	
Time	
Place	
Contact	

For more information, contact your Henkel representative, Call 1-800-LOCTITE (562.8483) or visit henkelna.com/mro



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www.henkelna.com/mining

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