

CMS 2000

FLUSHLESS PACKING SYSTEM

INJECTABLE PUMP SEALANT



ELIMINATE FLUSH WATER USAGE

CMS 2000

FOR VIRTUALLY LEAK-FREE SEALING

The CMS 2000 injectable pump sealant is an environmentally friendly seal that operates with minimal to no leakage, keeping pump areas dry.

Improve pump sealing

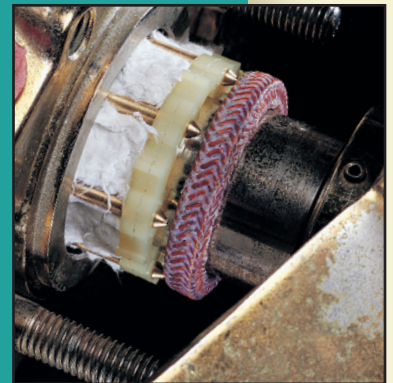
Unlike conventional packings, CMS 2000 does not require process fluid or flush water leakage. Process fluids are contained within the pump, minimizing stuffing box leakage. This also improves your equipment life by eliminating leakage of process fluid or flush water as a potential source for bearings contamination.

No flush water required

CMS 2000 does not require cooling or flush water. This eliminates water intrusion into the process that could contaminate or dilute the pumped fluid, or require additional energy to adjust process temperature to compensate for the cooler flush water.

No teardown and shutdown to repack

Improve equipment maintenance efficiency and productivity. CMS 2000 can be added during equipment operation to maintain leak free sealing. Simply inject the CMS into the stuffing box lantern ring port inlet at any time.



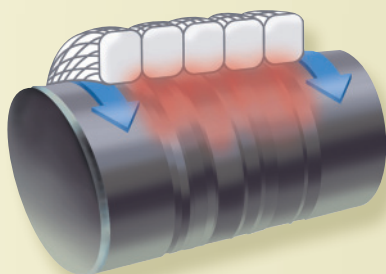
For optimum performance we recommend the use of Chesterton Stabilizer Cage to maintain end ring loading in tough applications.

Economic advantages of CMS 2000 in pump sealing:

- **No flush ever needed**
 - Eliminate flush water costs
- **Prevent leakage**
 - Reduce product loss, disposal and cleanup costs
- **Improve equipment uptime**
 - Reduce sleeve wear and extend bearing life
 - Additional CMS 2000 can be added while operating—no downtime for repacks
- **Reduce maintenance costs**
 - Can be used on slightly worn or pitted sleeves
 - No gland adjustments after installation
 - No pump disassembly to repack pumps
- **Reduce inventory costs**
 - The same formable sealant fits any stuffing box size
- **Lower operating costs**
 - Minimize product loss
 - Improve productivity

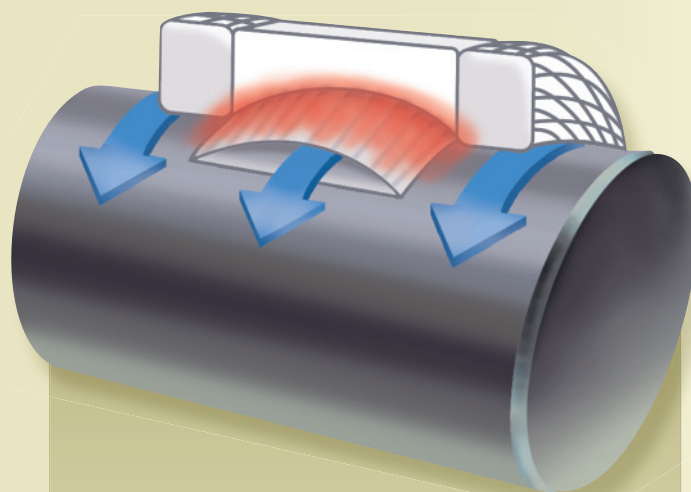
Create a solid composite ring that has no leak paths

CMS 2000 is a high-purity, fiber-reinforced composite which forms a homogeneous mass inside the stuffing box. The sealant clings to the shaft sleeve on the inside diameter and to the box bore on its outside diameter. *Internal Laminar Shear™* within the low friction sealant, reduces sleeve wear. CMS 2000 seals against the sleeve by forming an endless composite ring, and molds to irregularities of the stuffing box and shaft sleeve. Packing end rings are generally used to prevent extrusion.



Conventional packing binds the shaft, causing costly fretting damage.

Chesterton CMS 2000 Internal Laminar Shear™ prevents sleeve damage.



Just two braided end rings prevent extrusion.



Also available in black.

CMS 2000 Product Reorder

Description	Reorder No.	Reorder No.	Reorder No.
Injectable Compound	White	Black	FP
Cartridge	001048	004431	127533
CMS 2000 Injectable 13.2 liter	001047	004432	127532
CMS 2000 Injectable 3.8 liter	001046	004433	—

Application: The versatility of CMS 2000 allows for use in a variety of pumps including stock, white water, river water, water treatment, cooling tower, wastewater, lift, and sea water, as well as grinders and other rotating equipment. *This makes CMS 2000 ideally suited for applications in the paper, ore processing, water, wastewater, food, power, chemical, and refining process industries.*

Technical Data

Temperature Limit	205°C (400°F) white
	205°C (400°F) black
Shaft Speed	10 m/sec (2000 fpm) white
	8 m/sec (1600 fpm) black
Chemical Resistance	pH 1–13 white not recommended for oxidizers, fluorine, chlorine trifluoride and related compounds, and molten alkali metals
	pH 4–13 black not recommended for oxidizing agents
Product Characteristics	Available in cartridge, bulk, and Online Injector Sticks.
	Available in non-staining white, food grade, and black

CHESTERTON

CMS 2000 Delivery Systems

ONLINE INJECTOR

The Online Injector can be attached directly to the lantern ring inlet port with a fitting that allows for topping off of the CMS 2000 as needed—without the need to carry additional equipment.



MANUAL INJECTION SYSTEM

The Manual Injection System comes in its own case, equipped with the manual hydraulic unit, a three foot hose, a one foot hose, a quart of hydraulic fluid, male and female flow-through fittings, a spanner wrench, and a CMS 2000 volume calculator.



AUTOMATED INJECTION SYSTEM

The Automated Injection System offers increased delivery speeds, total portability, and all day power during in-field use. This system provides eight hours of battery-operated hydraulic delivery, automatic cylinder retraction, one-hand operation, and remote control capability. This unit contains the same fittings as the manual unit.



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