

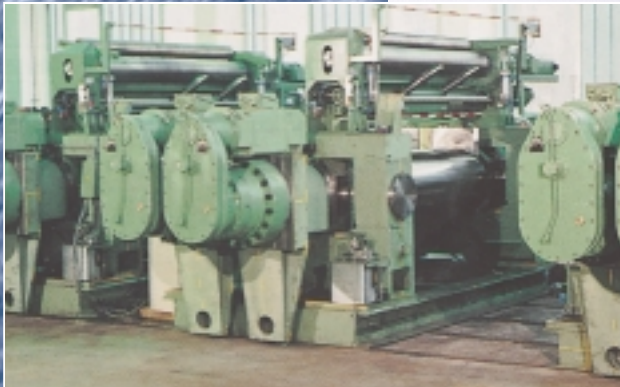
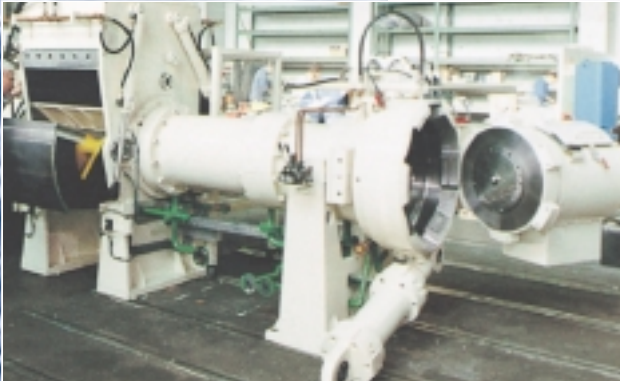
Manufactured Since 1942 by: Apex Engineering Products Corporation

RYDLYME

World's Leading Biodegradable Descaler

Tire & Rubber Industry

RYDLYME dissolves water scale, lime, mud and rust deposits safely, quickly and effectively!



*the solution to your
water scale problems*

RYDLYME and the Tire & Rubber Industry

The tire and rubber industry depends on water to cool various types of equipment. But where there's water, there's water-related problems caused by mineral deposits. These deposits are causing manufacturers varying degrees of water-related problems, affecting operating efficiencies and leading to other, more costly problems including downtime. Mineral deposits accumulate quickly regardless of screens or treatment. Even a thin coating of water scale will act as insulation and eventually retard the transfer of heat in water systems; an example of this is scale inside a mill roll causes hot spots, thus producing inferior production quality. You can put an end to your water scale problems with **RYDLYME**, a safe and environmentally acceptable alternative to other scale removal methods.

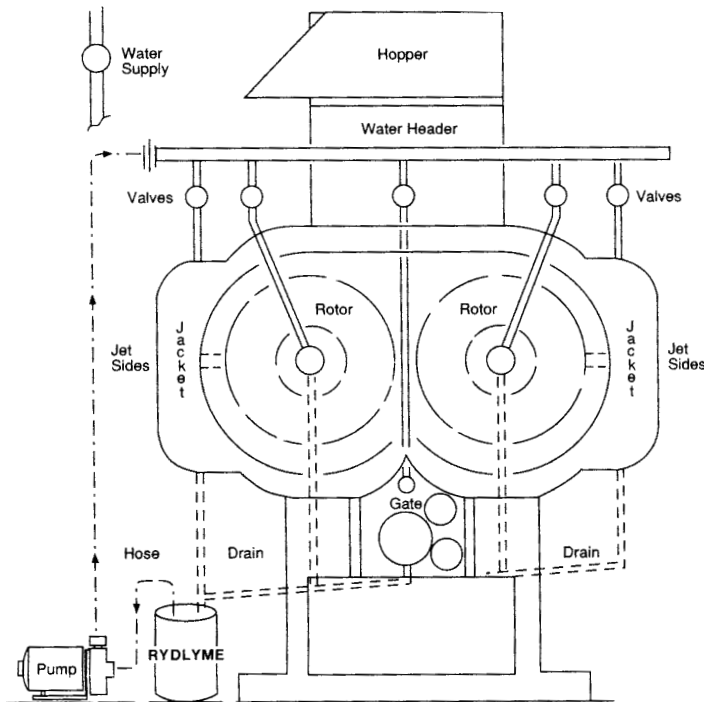
Instructions For **RYDLYME** Cleaning of Banbury Mixer

When water scale, lime and rust deposits accumulate on the water side of jackets, rotors and the gates of the Banbury Mixer, it causes high stock temperatures and a loss in production.

In order to remove these deposits:

1. Take mixer out of service.
2. Close water supply valve at header. See sketch.
3. Drain all water from all sections of mixer.
4. Connect **RYDLYME** pump discharge hose to water header. Header usually supplies all circuits.
5. Connect return hoses to drain lines from all circuits and place into **RYDLYME** receiver.
6. Close water supply valves to gate and jacket circuits.
7. Start pump and pump **RYDLYME** into rotors to purge the water from this circuit to sewer. When **RYDLYME** begins to discharge from this hose, return to the receiver.
8. Open water supply valve to gate and maintain **RYDLYME** circulation through this circuit.
9. Open water supply valve to jacket and maintain **RYDLYME** circulation through this circuit.
10. If any one circuit is NOT flowing properly, restrict **RYDLYME** flow in other circuits until flow returns to normal in this circuit.
11. Circulate a total of thirty (30) gallons of **RYDLYME** through all circuits of mixer until clean. This will require approximately three (3) hours pumping time.
12. It is suggested to periodically rotate the rotors during **RYDLYME** cleaning to assure that **RYDLYME** is in contact with all of the lobes of the rotor.
13. Upon completion of cleaning, flush all **RYDLYME** from all circuits with fresh water.
13. Disconnect pump and all hoses. The mixer is now ready to be returned to service.

Periodic **RYDLYME** cleaning will keep the temperatures of the mixer within acceptable limits, assuring you a better product and minimize burnt or improperly mixed stock.



Banbury Rubber Mixer

Free **RYDLYME** Demonstration

The tire and rubber industry has a great variety of uses for water and each may have its own quality requirements. **RYDLYME** can be utilized in virtually any area of your facility. Apex Engineering Products Corporation has been successfully manufacturing the "World's Leading Biodegradable Descaler" since 1942! And with our experience, field technicians and customer service, we can offer you the best products and service available. So call now for your free demonstration and we will outline a proposal to help you maintain your facility at peak operating efficiency.

Why Should You Use **RYDLYME** ?

RYDLYME is EFFECTIVE . . .

it dissolves approximately two pounds of scale per gallon!

RYDLYME is NON-HAZARDOUS . . .

it does not fall under any of the seven federally designated classes of hazardous waste!

RYDLYME is BIODEGRADABLE . . .

it has a biochemical oxygen demand of 16 mg/l and can be disposed of through existing plant sewers!

RYDLYME is SAFE . . .

it can be held in the open hand without injury!

RYDLYME is ECONOMICAL . . .

Call us at (800) 451-6291 to learn how an investment in **RYDLYME** can multiply your efficiency!

But does it really work?

Just ask around!

*By incorporating **RYDLYME** into your preventive maintenance program, you can keep your equipment running effectively and economically.*

CASE HISTORY #2

A division of Goodyear Tire and Rubber Company was experiencing very high discharge air temperature on a 350 hp Worthington air compressor. Due to inefficiency of the intercooler and aftercooler, the discharge air temperature was measured at 390 degrees prior to the **RYDLYME** cleaning. 165 gallons of **RYDLYME** was circulated throughout the coolers and water jackets of the unit for 4 hours then flushed with clean water and put back in operation. After the cleaning, the discharge air temperature measured a 217 degree drop, bringing the unit well within operating limits! **RYDLYME** is now a regular part of their preventive maintenance program.

CASE HISTORY #1

A large tire and rubber manufacturer in the Midwest was experiencing high stock temperatures and loss of production in a number 11 Banbury mixer. A total of 30 gallons of **RYDLYME** was circulated through the jackets, rotors and gate for only 3 hours, then water flushed and returned to service, well within operating limits. The cleaning resulted in better stock and minimized burnt or improperly mixed stock. The customer was astonished as to how safe, economical, rapid and effective **RYDLYME** performed on his fouled equipment. **RYDLYME** is now an integral part of their maintenance procedure.

CASE HISTORY #3

Bridgestone Firestone had a problem with their 84" mill rolls. The mill rolls were operating inefficiently due to hot spots, caused by water formed deposits inside the rolls. A total of 60 gallons of **RYDLYME** was circulated for only 2 hours. This procedure eliminated the hot spots, greatly enhanced the operating efficiency of their mill rolls, and now has become a cost-effective way to retain quality of production.

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RYDLYME
World's Leading Biodegradable Descaler

the solution to your water scale problems

www.rydlyme.com

**A safe biodegradable
liquid solvent specifically
designed to dissolve all
water scale, lime, mud
and rust deposits, safely,
rapidly and economically.**

Listed below are just some of the types of equipment that have been thoroughly cleaned with **RYDLYME** in the tire and rubber industry.

- Molds
- Boilers
- Chillers
- Condensers
- Vacuum pumps
- Banbury mixers
- Air compressors
- Absorption units
- Temp control units
- Injection throat coolers
- Tubers
- Beaders
- Extruders
- Intercoolers
- Aftercoolers
- Cooling towers
- Heat exchangers
- Compressor jackets
- Mill & calendar rolls
- Closed loop cooling systems

For detailed instructions on cleaning any of the above applications, please call Apex Engineering Products Corporation.

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