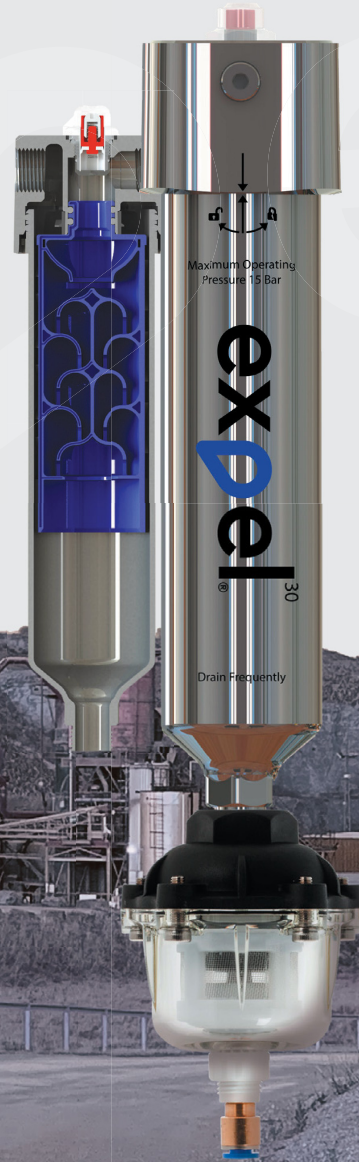




// ONE BRAND // ONE SOURCE // ONE SYSTEM

expel®



EXPTEL 30 FILTER & AUTO DRAIN SET

Industrial Applications

Compressed air is the lifeblood of many processes – for example, it controls valves and actuators in asphalt plants or pneumatic vibrators on the side of silos in concrete and mortar plants. For quarries, asphalt and concrete plants, water in compressed air lines usually leads to equipment failure, production downtime and increased maintenance.

A solution to all of these problems is the Expel 30 Filter & Auto Drain Set. This easy-to-fit unit continuously removes ALL liquids from compressed air systems, as well as solids down to 1 micron. The result is NO MORE equipment failure or downtime because of water.

EXPEL represents a unique approach to compressed air filtration. It is the only compressed air filter that can separate liquids and solid contaminants from a compressed air line with zero maintenance. No replacement filter elements are required – just fit and forget and look forward to having a clean, liquid-free air supply for all your pneumatic equipment.



EXPEL 30 - Point Of Use Liquid Water, Oil Emulsion Fluids and Solid Particulate Compressed Air Filter

Exceptional compressed air quality guaranteed

Expel will dramatically improve compressed air systems throughout the industry. The unique patented design allows it to efficiently remove 99.9999% of liquid water, oil emulsion fluids and solid particulates down to 1 micron when installed at point of use.

PRODUCT OVERVIEW

- 30 cfm max rated flow rate
- 15 bar(g) - 217 psi(g) maximum pressure
- 2 year manufacturer's warranty
- ½" & ¾" bspt / npt inlet / outlet connections
- Removes 99.9999% of liquid water, oil emulsion fluids and solid particulates down to 1 micron
- Grade 304 stainless steel body and head
- Pressure indicator as standard
- Optional pressure gauge.
- ½" bspt / npt male drain port

FEATURES

- Tested in accordance of ISO 12500
- Worlds first cleanable, reusable compressed air filter
- Max. 0.1 pressure bar drop
- No power source required
- Significantly increases the life cycle of pneumatic tools and equipment
- Easy to install and maintain
- Instantaneous recovery from pulsed flows or start/stop flows
- All spare parts available
- Fully dismantlable
- No decrease in performance over lifetime of well maintained filter



EXPEL 30 - AUTOMATIC FLOAT DRAIN

The new EXPEL Automatic Float Drain is designed to discharge liquids and particulates extracted from your compressed air system by the EXPEL range of compressed air filters.

The unit is designed for working pressures up to 232 psi, and is screwed directly to the base of the EXPEL. This product is suited towards environments where high levels of condensate are frequently experienced. A 6mm diameter plastic tube can be connected to the base of the drain to control the flow of the discharged fluid into a suitable container for disposal.

KEY FEATURES

- No power source required
- Automatic condensate drain
- Clear bowl enables visibility of drain operation
- Unit can be easily dismantled for servicing and cleaning if required
- Operating pressures up to 232 psi
- Is easily attached to your EXPEL units drain port
- ½" BSPT Female Thread Inlet connection
- Manual override for immediate condensate discharge

EXPEL 30 - AUTOMATIC FLOAT DRAIN

Part Number	Inlet Thread	Outlet	Minimum Working Pressure	Maximum Working Pressure	Minimum Working Temp.	Maximum Working Temp.	Initial Discharge Value	Maximum discharge Capacity
6100-023- AA	½" Female BSPT	6mm Diameter	21.7 PSI	232 PSI	35° F	185° F	0.75 fl. oz.	84 L/H

Problem



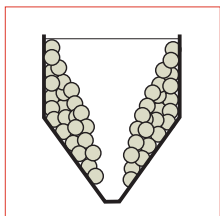
Solenoid valves failing; if the solenoid valve on the bin door fails, the door will stick which can affect your weighing systems accuracy.



Damaged Namur valves will not energise the actuators, causing butterfly valves to fail.



Issues with water freezing in compressed air lines (from a burner, for instance) in winter will inevitably cause damage to the internal parts of the machinery. This can result in faulty operation of controls and costly repairs. The addition of antifreeze lube oil only makes the corrosion worse.



Pneumatic vibrators on the side of silos getting clogged due to moist air. This can be extremely damaging to the storage silos causing bridging and ratholing and even the caving of a silo container.



Oil carry over from air compressors can combine with dust and dirt in compressed air lines to create a grinding mix that erodes seals on pneumatic valves and cylinders/piston.



Water in your compressed air leads to pitting and rusting on cylinders. These need replacing... which is costly.



Pneumatic tools such as air-driven pin drivers and cleaning devices for cleaning sawed joints can corrode and rust quicker due to contaminated air.

Solution

Expel removes all liquids, water and particulates to 1 micron which protects solenoid from liquid water and build-up of solid contaminants.

Expel removes liquids and particulate contaminants in one filter, therefore replacing up to three traditional filters with one unit ensuring the butterfly valves are protected.

As Expel removes all liquid water, it continuously ensures there will not be enough water in the air lines to freeze and cause damage. Additionally, Expel has been manufactured from Stainless Steel making the filter itself highly robust and corrosion resistant.

Expel protects this from happening as the liquid water is removed prior to the air coming into contact with the vibrators and ensuring silos don't get clogged. This eliminates a huge cost of having to replace silos.

Expel removes 99.9999% of liquid water, oil mix and particles to 1 micron. Installing Expel reduces both your wastage and costs whilst protecting your equipment to a superior standard.

Expel protects pistons and cylinders by continuously removing any water. As well as protecting your equipment, Expel can help contribute to a company's reputation of producing minimal wastage where possible and save you money.

Expel will protect pneumatic tools from liquid water increasing life-cycle of tools and equipment. Reduce unnecessary costs and downtime.

EXPTEL 30 Filter & Auto Drain Set

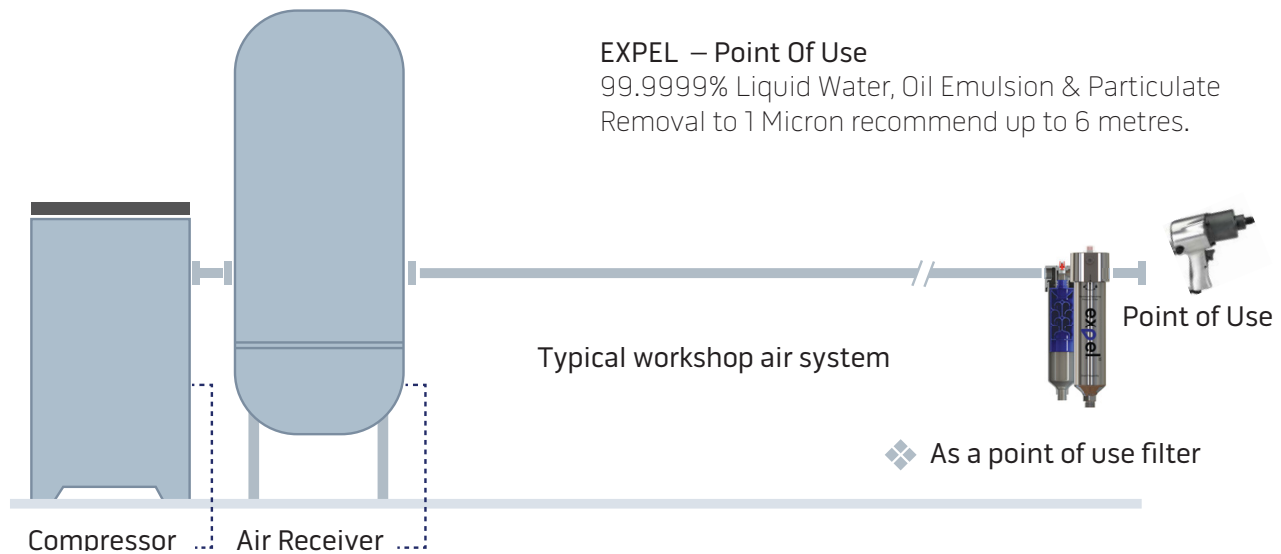
Why buy Expel? It really works!



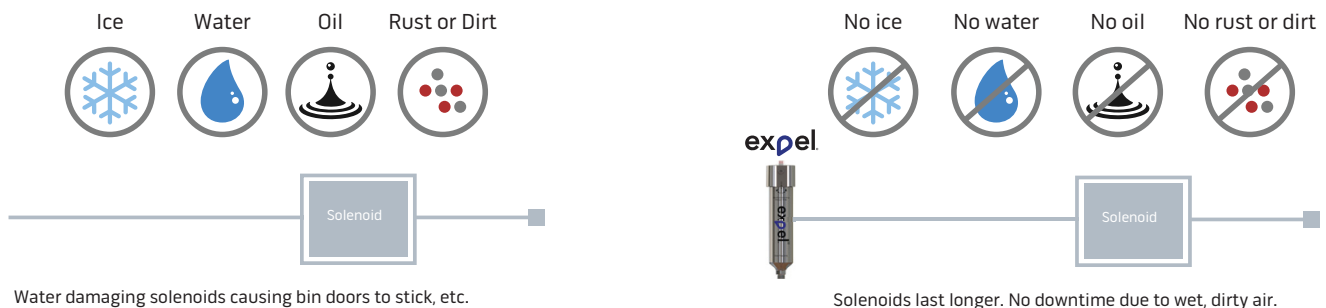
Features	Advantages	Benefits
Reduces equipment downtime	Improves the efficiency of your site, keeping costs low and production time high.	No more equipment downtime due to failed solenoid valves, pneumatic vibrators on silos getting clogged, pistons needing repair/ replacement, frozen water in air line, mis-batched mixes and bin doors sticking.
In the majority of cases, no dryer is required	Saves initial purchasing/installation costs. Saves on-going energy costs. Saves in servicing costs including part replacement costs, running costs and general maintenance of dryer.	This can save your site thousands! Expel works as a more effective system than a dryer as it cleans the air just before the point of use. Expel requires no running costs.
Reduces energy costs	Expel has a smaller pressure drop than traditional filters. When mesh filters collect dirt and water it creates resistance. This increases energy usage to maintain the same flow rate after the point of use, with multiple mesh filters in line causing greater energy usage costs.	Expel always maintains a low-pressure bar drop, meaning you have consistently minimal energy costs.
No more emergency call outs for breakdowns due to water in compressed air lines	Effective placement of Expel reduces call outs, downtime and costs.	Saves your site money as your production time will be higher and your maintenance costs lower.
The performance of Expel does not drop over time	Consistent performance, requiring no maintenance	Ensures smooth running of your site, eliminating problems associated with water and dirt entering compressed air lines and damaging equipment i.e. solenoid valves failing causing bin doors to stick.
No replacement filter elements are required	An instant way to stop spending money on internal parts of filters and is a good step towards your sustainability goals.	Zero maintenance and always a perfect performance. No more hassle and time spent changing internal elements on filters.
Designed and tested in accordance of ISO 12500 Air Quality	Latest ISO standard specifically for compressed air filtration.	Meets stringent testing standards for the quality and performance of compressed air filters, so you have peace of mind that you have a quality product.

Install Expel in the following locations

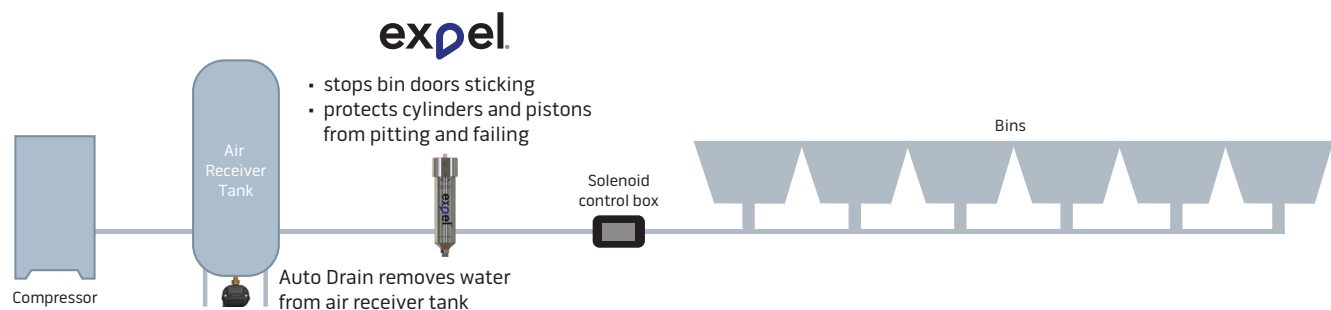
- Before the solenoid control box
- Before airlines entering silos
- Before bin doors
- Before airlines enter pneumatic tools and cleaning devices.



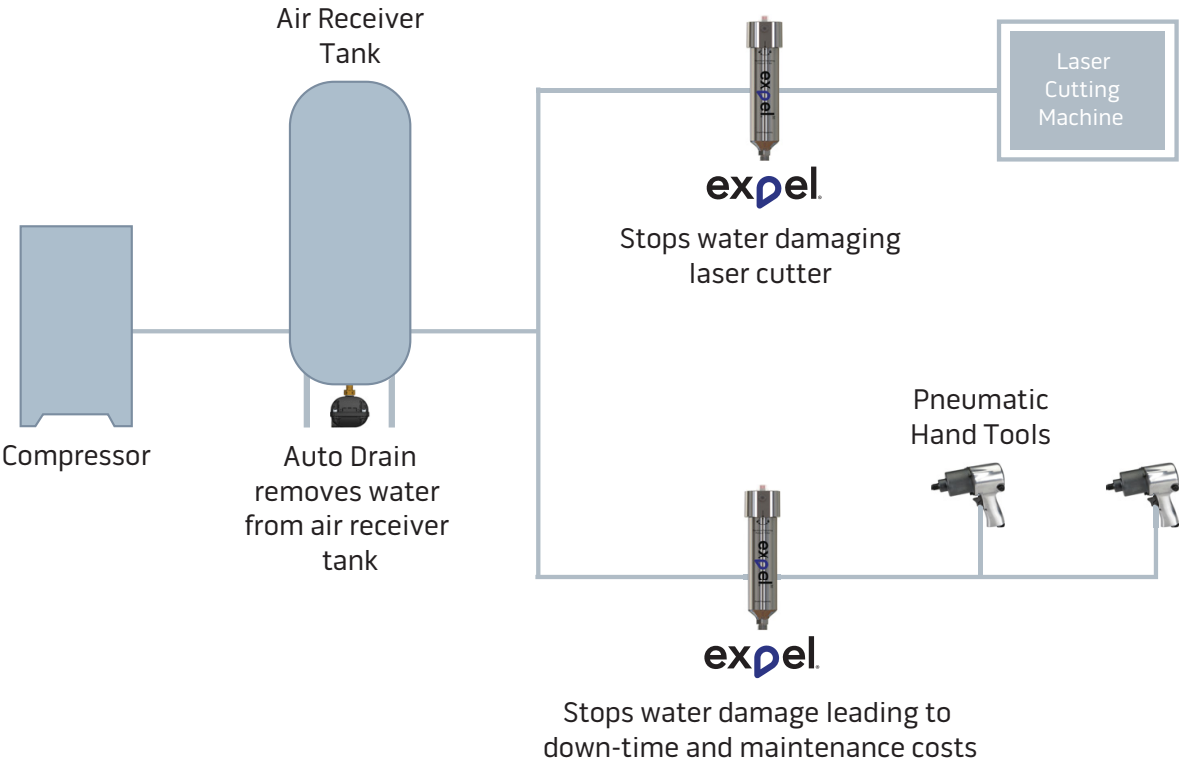
Install before any Solenoid Box



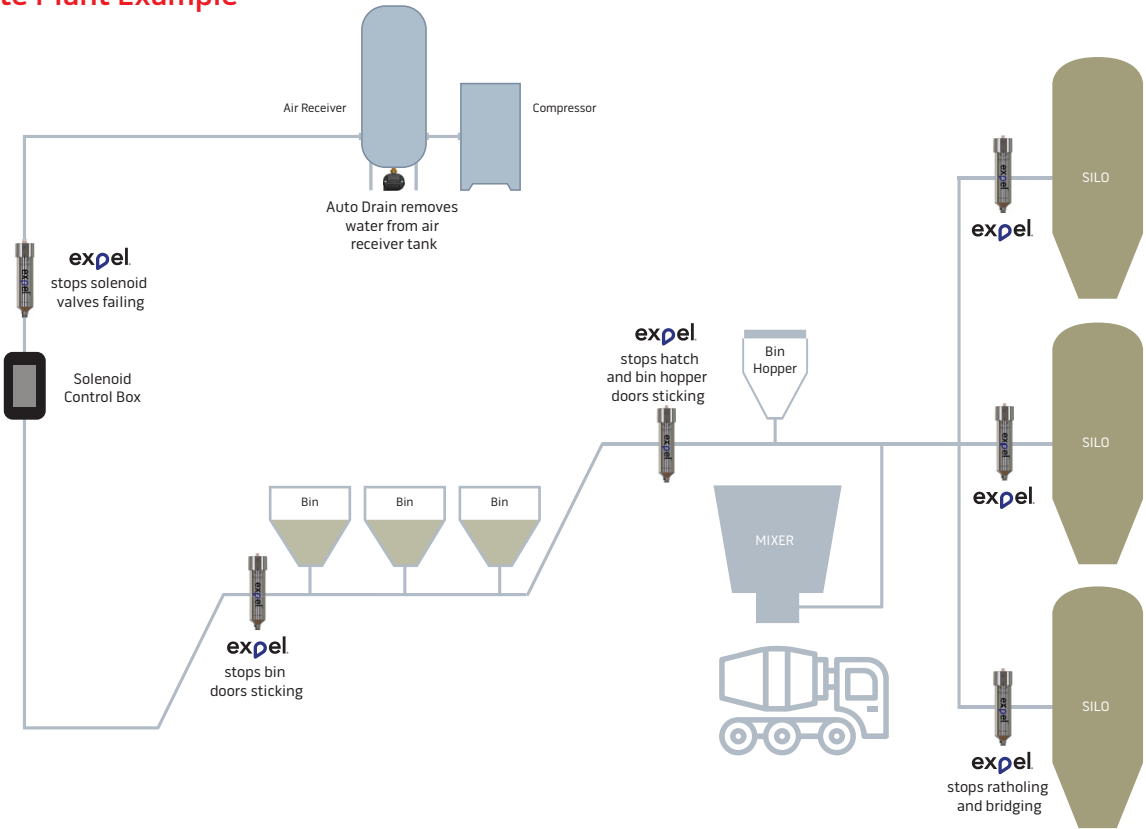
Screen House Example



Workshop Example

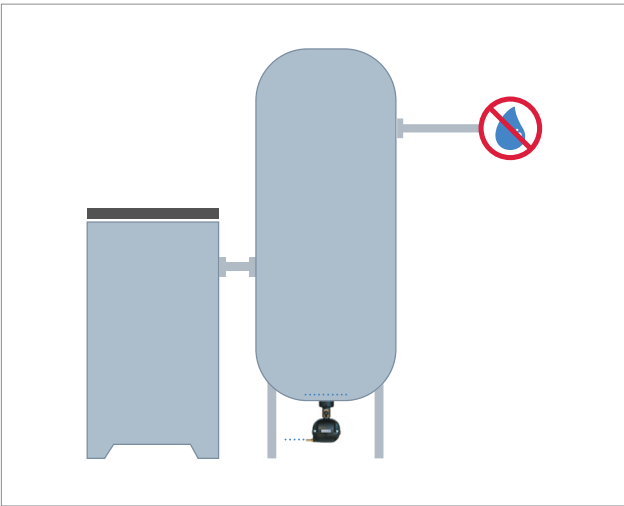
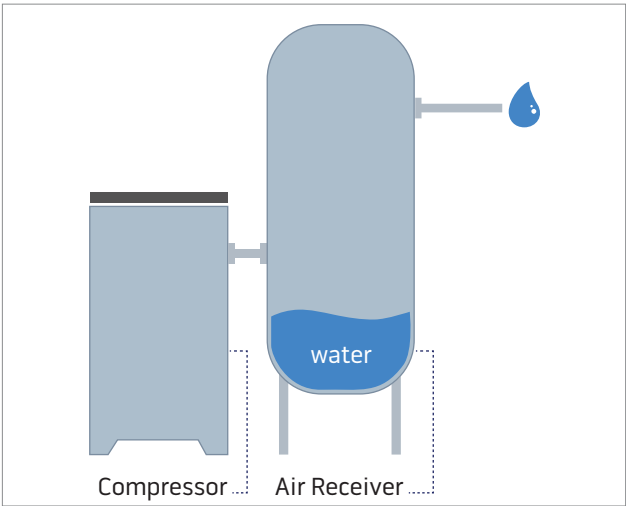


Concrete Plant Example



Why install the Original AVG drains on your air receiver tank?

Draining water manually from the air receiver tank has a number of issues



ISSUES
Pressure loss if air escapes during manual draining
Human error leads to build up of water that ends up going through airlines and damaging valves and equipment
Takes up more time and is an additional job to have to remember

SOLUTIONS
Auto drain has zero pressure loss so no air lost during draining
The auto drain will continuously automatically drain any water build up
Installing an auto drain will give you one less job to worry about, you will not have to remember to drain the tank manually, it will be done for you.

AVG AD Zero Pressure Loss 1 removes condensate from compressed air filters. The operation is automatic and there is no compressed air lost during the condensate discharge cycle.

The AVG AD Zero Pressure Loss 1 uses magnetic forces to operate the direct acting valve assembly and is ideally suited in applications where power is not available, too expensive or not reliable. The magnets have been specially selected to ensure that long lasting magnetism is guaranteed.

AVG AD Zero Pressure Loss 1 : SPECIFICATIONS

Maximum drainage capacity	Unlimited filter draining capacity
Inlet connection	1/2" BSP or NPT (please specify)
Outlet connection	1/8"
Minimum system pressure	0 bar
Maximum system pressure	16 bar
Minimum medium temperature	35.6°F
Maximum medium temperature	122°F
Valve orifice	1/16"
Type of operating valve	Stainless steel direct acting valve assembly
Valve seals	Viton (FPM)
Housing material	Corrosion resistant Aluminium (EP coated)



INSTALL AN AVG AD Zero Pressure Loss 1 TO ENSURE A RELIABLE PROCESS OF CONDENSATE DRAINING ON FILTERS

REMA TIP TOP Product & Solutions

CONVEYING SOLUTIONS

Pulley Lagging

- PERFORMANCE GRIP 70
- REMAGRIP
- REMAGRIP Ceramic Lagging
- UNIGRIP
- UNILAG
- T-REX

Belt Cleaners

- REMACLEAN - T-Bar Scrapers
- REMACLEAN - Green Combi
- REMACLEAN - Grey Combi
- REMACLEAN - Cleaning Brush

Skirting

- REMASKIRT
- Combi-Skirt
- T-REX
- UNISKIRT

Repair Products

- Repair Patches
- Repair Strips
- REMA GOO
- RG 7000
- T2 Repair System

Other

- Conveyor Belting
- REMACLEAT
- Edge Wall
- Impact Slider Bed Bars
- REMAMILL
- REMASCREEN

Rollers & Pulleys

- REMASLEEVE
- REMAROLL
- REMATRACK

WEAR & CORROSION PROTECTION

Wear Protection Lining

- REMA Performance Line
- REMALINE
- REMASTAR
- UNILINE
- REMATHAN
- T-REX

Rubber Linings

- CHEMOLINE
- CHEMONIT

Heavy Wear Protection

- REMALOX
- REMALOX HD
- KG Bars
- ZP Profile Bars
- REMA WEAR Repair

Anticaking

- REMAFLOX
- REMALEN
- REMASLIDE

Corrosion Coatings & Linings

- COROFLAKE
- COROGARD
- COROFLOOR
- TOPLINE
- RCC LININGS
- COROFLEX

Material Handling Hose

- Fixed Flange
- Split or Swivel Flange
- Cut End Hose

ADHESIVES & SOLUTIONS

Cements & Adhesives

- SC 2000 Black / White
- SC 4000 Black / White
- BC 3004 Blue Cement
- PC-4 Plastic Cement

Solutions

- PR 200 Metal Primer
- #13 Cleaning Solvent
- R50 Cleaning Solvent
- TIP TOP Hand Cleaner
- A&B Vulc Compound

Splice Kits

- Hot Splice Kits
- MSHA Splice Kits
- WK Press and Splice Material
- Filler Rubber
- CN Bonding Rubber

TOOLS & REPAIR

Tools

- Rubber Cut Saw
- Extruder Gun
- Vulcanizing Presses
- Combi Stripper
- Grooving Tool

Other

- REMAWRAP Pipe Repair
- OTR Tire Patches



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