

# Guide to Spinner Head Spraying Renderoc CAC



constructive solutions

## Introduction

The following information sheet is intended to be used as a guide when considering applying Renderoc CAC Wet Spray through a spinning head for the rehabilitation of manholes. The main benefit of this process is that it minimises the need for people to enter the structure. It also makes rehabilitating manholes, quicker, easier and safer, especially those with small diameter or restricted access.

This is intended as a guide only and trials are **strongly** recommended using this type of setup prior to major works commencing.

This guide should be used in conjunction with the Renderoc CAC Wet Spray guide.

## Equipment

- A spinning head.
- A compressor with an approximate capacity of 100 c.f.m at 100Psi or better.
- Compressor must produce an adjustable steady stream of good clean air, preferably with an after cooler and coarse and fine filters.
- Air and product delivery hoses.
- A tripod and winch capable of supporting the spinning head and attached hoses.
- A mixer and pump with enough capacity to supply and even coating with no interruptions.
- Renderoc CAC Wet Spry and a good source of potable water.

Before connecting the spinning head to the compressor hose, spray Air tool oil into the air inlet.

Connect the air supply hose and turn the compressor to approximately 30 to 40 p.s.i The head should then turn. If not, it may need a little persuasion so try to flick start it with your hand (this must be done with care as it may be sharp, gloves must be worn).

## Running of spinning Head

Run the spinning head at low speed for a couple of minutes to let the oils relubricate the bearings. If the equipment appears to be operating as expected, gradually increase the pressure to approximately 80 p.s.i and run at that pressure for 10 minutes. Always secure the machine firmly to a bench or the tripod while ever operating. Ensure ear and eye protection are worn during this process. If the equipment is operating correctly at this point, attach the delivery hose to the head.

Wet the pump and hose with clean water then drain the water from the pump and hose. Prime the machine using a slightly wetter mix than normal to start with and set the pump at about 3 to 4 litres/minute. (use 2 bags of sieved Renderoc CAC – taking out the coarse aggregate to prime the system). Initially spray into an old waste bin or drum with a similar diameter as the manhole and practice raising and lowering the machine up and down to gain lining thickness.

## Cleaning of equipment

On completion, disconnect the delivery hose and air hose, clean the spinning head to remove all of the Renderoc CAC. You may find removing the outlet head, (held on by 3 x Grub screws) will help this but try not to full immerse the machine in water. When clean, spray the light machine oil into the machines airline and reattach and run the machine at low speed (say 20 to 30 p.s.i) to remove any water from the bearing and replace with oil. The head should now be ok to leave until the next time. Clean the pump and hoses as you would normally do.

## General information

In the wet spray process, Renderoc CAC is batched and mixed prior to being pumped along suitable hoses to the spinning head nozzle. The spinning head disperses the mortar and propels it into position.

The impact of the mortar ensures excellent contact with the substrate and good compaction. The applied material can then be trowel finished if required. As the material is batch mixed prior to pumping, the water content can be accurately controlled, ensuring a consistent product is applied to the substrate.

Wherever possible, it is prudent to keep the pump unit close to the work area to prevent high pressures in the delivery hoses.

The spraying technique employed for each job will depend on the nature of the work and the materials used. Wherever possible, it is recommended that trials are performed with the material and equipment on elements which exhibit the same features as the job to ensure the spraying technique employed is appropriate. The general guidelines presented here offer a starting point for these trials.

## Safety

All necessary measures should be adopted in accordance with the requirements of all Health & Safety Acts or other nationally recognised legislation. In particular, lighting, ventilation and protective clothing shall be adequate for the safe and proper execution of the work.

Before work commences, refer to the product data sheet and Safety Data Sheet (SDS).

## Spinning Head supplier contact details

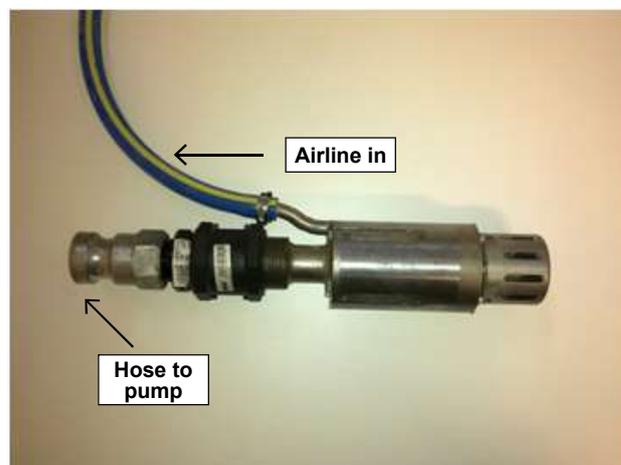
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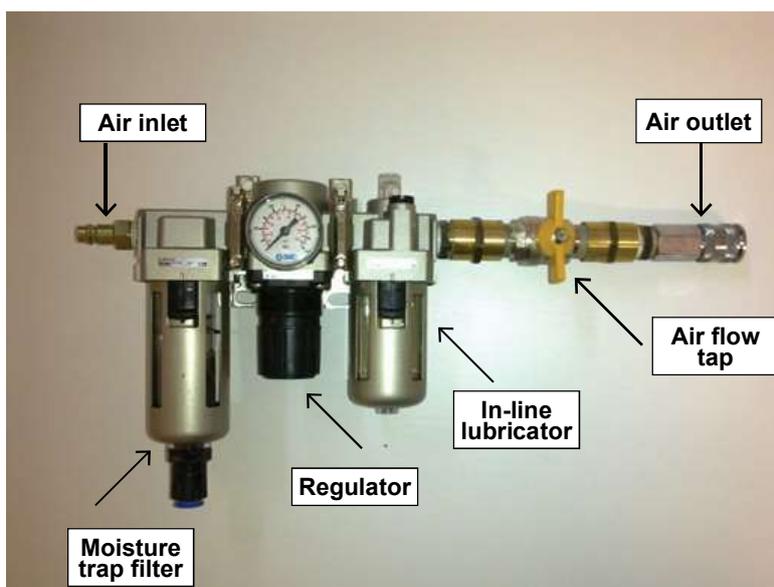
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Close up of spinner head



Air line and delivery hose connections



Typical regulator / filter arrangement

## Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## Product disclaimer

This Application Guide summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this Application Guide carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.