

Service Reference

Topic: Remove Wrap of ME Cell

Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work or unpacking any further.

Required Materials

Required Tools

- Bandage scissors with blunt leading edge

The outer Wrap performs an important function, which is to provide support for the fragile ion-exchange membrane when the ED bath is lowered and there is a significant hydrostatic force caused by the electrolyte inside the Cell or when a Bulkhead Fitting is used to create a Low Profile Cell and the inside of the Cell becomes pressurized. In either situation the internal force will try to cause the membrane to stretch and maybe break. In some cases, an external foulant may of attached itself to the outer Wrap. Generally, this type of foulant will increase the resistance of the Cell and thus render it less useful since it will take more voltage to drive electric current through it to the ware being painted.

If you have determined that this foulant cannot be eliminated (See Bulletin #990166), then the next step may be to remove the wrap and see if an improvement in the electric current flow can be achieved. Special Note of Caution – If you use a Low Profile Cell or ME Cell with an effective length longer than 1900 mm (74.8 in) then UFS suggests the use of a pressure alarm to be installed on the Supply Manifold. The alarm point should be set to 0.5 Bar (5 – 7 psi), since this is typically all that is required to flush the Cell.

1. If your ME Cell Model number begins with a 'T' or 'S', then carefully remove the Membrane Guard, otherwise Skip to Step 2. Even though there are ED paint solids that are covering the Collar and the top of the Membrane Guard – they are not cured and so can be overcome. Use a matt knife to score the ED paint solids. DO not use the matt knife on the outer Wrap or the Membrane. Once the ED paint solids have been scored – remove the ED paints. At this point, grasp the Membrane Guard and pull it over the Cap of the Cell and then completely off. Set is aside for reuse. Skip to Step 3.
2. If the Model number begins with 'J', or 'K', then you will have to carefully cut the close fitting membrane guard off first.
3. Take the special scissors and carefully push the blunt leading edge of the lower jaw of the scissors between two layers of the outer wrap.

You can start at either the top or the bottom. Make a cut completely around the diameter of the ME Cell. Repeat this at the other end.

4. Reinstall the Membrane Guard back on the Shell. If Step 2 applied, then use small plastic tie wraps to reinstall the guard every 150 mm (6").
5. **For more information** see the original manual that came with the equipment or call UFS at the phone number shown above.