

DAYWALK eVCI Preservation Application

Operator Instructions

Version 220627

1. Ensure all surfaces are free of rust
2. If there is any visible rust on machined/bare metal surfaces, remove the rust either with Mineral Turpentine Oil, or zero-grade emery paper.
3. As a safety precaution coat these bare metal surfaces with SKN45 or SKN20 (depending on metal);
4. As an alternative to SKN, if the preservation is only short-term (1-3 months), apply a coat of VCI oil on bare metal surfaces.
5. Refer to the OEM as to the need of internal preservation, i.e. is there any likelihood of rusting/corroding on the inner surfaces of the equipment. If the OEM requires further input, contact Daywalk technical team.
6. Ensure the transport frame is in good working order (welds, coating, certification plaque)
7. If you are using a bolt-through system, position the bolts in the frame
8. Utilise Daywalk friction rated rubber on top of the steel pallet/frame. Ensure there is allowance for the bolts to protrude through the rubber.
9. Lay down one or more layers of film, depending on lifespan of preservation. If bolts are being used, make a small incision in the film and once the bolts are protruding through the film, tape around the bolt to ensure that the hole is kept as small as possible.
10. Lay pieces of rubber inside the film so that when you lower the equipment onto the frame, there is rubber between the steel surface of the equipment and the film. This is to ensure sufficient friction is maintained to comply with transport forces.
11. Lower the equipment into place, and tighten the bolts referring to the applicable torque settings supplied to you by the OEM; if you need additional help, contact Daywalk technical team.
12. If there are any cutting edges or knife edges on the equipment, pack the edges with appropriate edge protectors (e.g. cardboard etc); this will protect the film from being pierced.
13. If there are excessive bare metal surfaces on the component requiring preservation, consider using a layer of VCI paper to ensure added protection, e.g. if there are multiple layers of machined pins or flanges, place a layer of VCI paper between each layer of component.
14. Place VCI powder sachets in the vicinity of bare metal surfaces – using the dosage of 1g of VCI powder per 1cu.ft of void space under the packaging.
15. Desiccant can also be utilized, however ensure that the desiccant is not in contact with any bare metal surface, and also focus on placing/hanging the desiccant bags in the top one-third of the packaged area (this is where the bulk of humidity forms).
16. Encapsulate the equipment with eVCI film, leaving no areas uncovered. If you are using two layers of film, start with the inner layer first.

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17. Ensure there is no direct contact between the component and any timber or other hygroscopic surfaces/materials.
18. Tape the film into place using strips of DAYWALK hi-tac tape.
19. It is of utmost importance to layer the film such that you ensure that if there is rain, the water runs off the film and does not run into the film, i.e. always layer the upper film over the lower film.
20. Trim off any excess film to make the shrinking process as efficient as possible.
21. Consider making a mark on the film with permanent marker to demarcate important areas such as plaques. This will assist in placement of access points/zippers that will need to be affixed once the unit is wrapped.
22. If there are any sling/lashing points that need to be used/accessed while the equipment is wrapped, make an incision in the film and allow the sling/lash point to protrude through the film.
23. Tape around the lash point thoroughly to ensure minimal air ingress.
24. Enquire of the site HSE manager/coordinator as to site safety regulations, e.g. hot work permit, exclusion zones, exclusion times, PPE requirements.
25. As a minimum PPE requirement, wear a general-purpose glove on the hand with which you hold the gun and wear a welding/heat resistance glove on the other hand.
26. Use the heat gun to apply heat evenly in a left to right motion, to the entire wrapped surface. Refer DAYWALK Heat Gun instructions for more detail.
27. Use an extension wand to access the upper section of the wrapping if required.
28. Ensure you have sufficient access equipment to ensure operator safety.
29. If any holes occur, either use a patch from the film or for smaller holes, simply tape the hole using the hi-tac tape.
30. Once you have completed the heat-shrinking process of the first layer, if there is a second or third layer, repeat the process again allowing for specific access points.
31. Upon completion of the wrapping of the final layer, affix the necessary access windows and/or zippers.
32. If there is a requirement from the customer to assess humidity levels within the wrapped nucleus during the preservation process, affix the appropriate humidity indicator.
33. Utilize the hi-tac tape to seal along all joints of the outer layer.
34. Affix the eVCI tape to ensure customer awareness of the technology.
35. Affix the long-term warning label – minimum one label is required if the unit is less than one cubic metre in volume. If the unit is larger consider using two or more of the warning labels.
36. For extreme environments or long-length storage requirements, consider covering the wrapped component with a DAYWALK tarpaulin-style cover.

Contact DAYWALK Technical Team on 1300 662 987 for additional support.

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