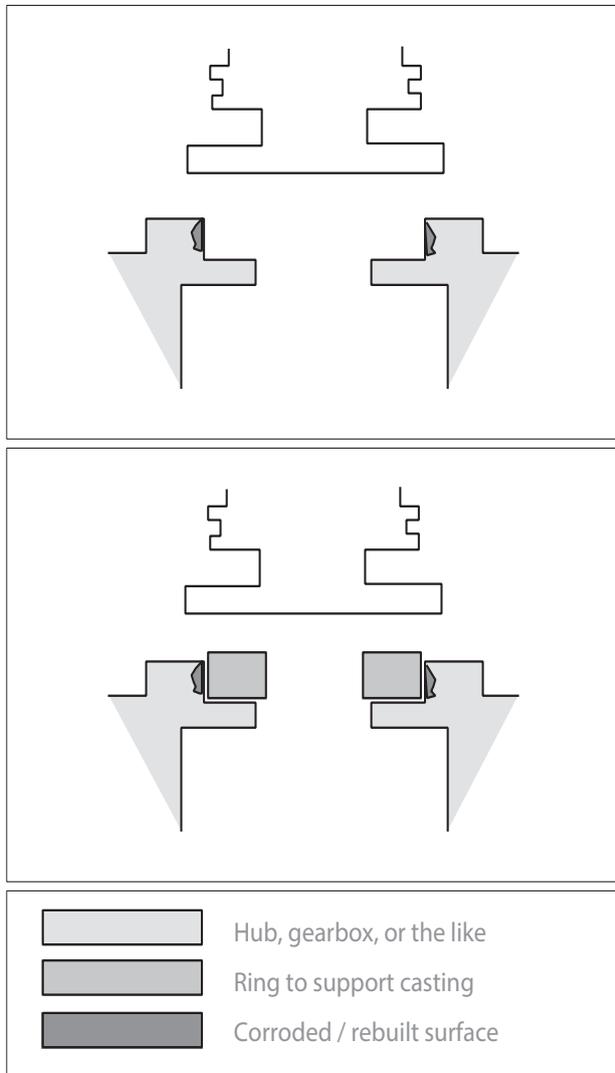


## Sealing ring seats - corrosion



Corroded sealing ring seats in gear boxes, ship`s hub in propeller head, etc., may suffer from either bimetallic corrosion or erosion/corrosion due to leakage and fluid flow.

In situations, where the turning speed is big and rotation takes place constantly, Wencon solutions are ideal. Especially if the cyclic contact does not happen between metal and the surface of Wencon material.

In situations, where the speed is low, and the rotation appears from time to time (i.e. the rotation between propeller blades and the hub), the technique will work well, whether the rotating contact happens directly on the Wencon material or not.

1. Grind the attacked surface acc. to Wencon surface preparation, next page. Mix and apply a suitable layer of Wencon Cream or Rapid. After curing, grind or machine the surfaces to the required shape.

### 2. Alternative

To avoid the grinding or machining, make a ring to support the casting during the curing. If the ring is made of metal, apply a thin film of Wencon Release Agent before the casting.

If the ring is made of PE plastic or the like, the Release Agent is not needed.

If the ring is made to the right tolerances, the application will be finished after removing the ring after curing.

## Wencon surface preparation

Choose the relevant surface preparation, depending on the nature of the job.

Surface preparation using dry blasting methods:

Application with Wencon products on a dry surface, at minimum 3°C. above dew point.

1. Blast the machine part to SA 2,5 using sharp-edged blasting media, to a roughness of min. 75 microns.
2. Leave the part for sweating out salts in a warm place for at least 12 hours or heat it up to 30 - 40°C (86-104 °F) using gas torches.
3. Blast again to SA 2,5, prior to the application.
4. For parts containing a lot of water and salt, it may be necessary to repeat point 2 and 3, until the surface remains light grey, for at least 2 hours after blasting.
5. For optimal adhesion of Wencon products, always use Wencon Bio Cleaner or Wencon Cleaner prior to application. Follow one of below two methods:
  - 5.1 **Wencon Bio Cleaner**  
**Wet surface:** Apply Wencon Bio Cleaner and let it work for 5-10 min. If necessary use a brush, to make sure the surface is clean. Rinse off with clean water and wipe off with an absorbing cloth. Apply Wencon UW Coating as a primer, and hereafter any Wencon products can be applied.  
  
**Dry surface:** Apply Wencon Bio Cleaner and let it work for 5-10 min. If necessary use a brush, to make sure the surface is clean. Rinse off with clean water and dry with an absorbing cloth or with compressed air for a completely dry surface. Hereafter any Wencon products can be applied.
  - 5.2 **Wencon Cleaner**  
After surface preparation, apply Wencon Cleaner with a brush and allow the product to evaporate before applying other Wencon products. Wencon Cleaner is non-flammable. Use only in large or well ventilated rooms.

Surface preparation using wet/damp methods:

Water jet the entire surface with water and sand to a standard equal, to SA 2,5 as described above.

If the surface is left wet after surface preparation, is it important to dry out the surface or alternatively use a Wencon UW product as a primer.

Surface preparation for emergency/temporary applications:

If above surface preparation methods are not possible, it may be necessary to use one of below methods:

- Blasting
- Grinding
- Needle Gunning

In emergency / temporary applications it may be difficult to prepare the surface according to above methods. In any case, it is important to clean the surface to SA 2,5 and 75 microns roughness. If possible dry the surface before applying. If not possible, use Wencon UW products prior to applying any other Wencon products.

For further information on Wencon surface preparation, please contact our Area Sales Managers.