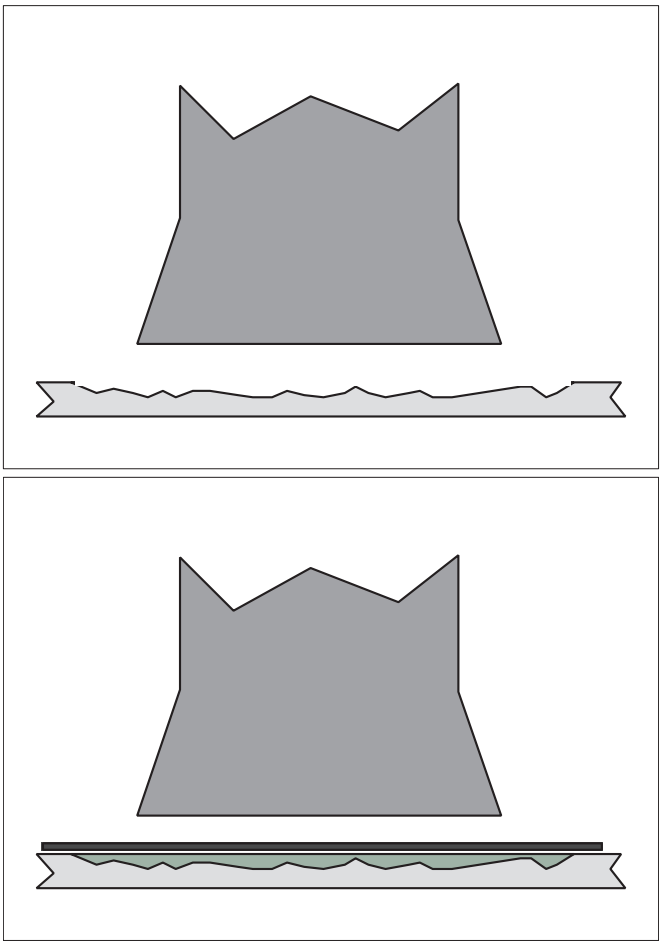
Ballast tanks - corrosion



Pump inlet
Steel plate
Corroded area
Wencon Cream or Rapid
Wencon Coating

Steel construction near the inlet of a pump often suffers from erosion/corrosion and impingement. If the deterioration has reached a point, where the thickness of steel plates is critically small, doublers should be welded in before this treatment.

1. Clean the area around the inlets thoroughly acc. to Wencon surface preparation, next page.

2. Mix and apply a suitable amount of Wencon Cream or Rapid to rebuild the damaged area. Let it cure until the surface is stiff but still slightly tacky.

3. Mix and apply Wencon Coating white, with brush or spatula, see instructions for use. Let it cure for approx. one hour.

   Apply the final coat of Wencon Coating, blue and after curing the Application is completed.

If a general tank coating shall be applied on top of the repaired area, it is advisable to grind the cured, glossy surface for better adhesion. Alternatively, if the tank coating is epoxy based, it can be applied shortly after the final coating, and make an excellent adhesion.

Alternative - wet surface
If the repair has to take place during normal traffic, it will be difficult to dry the surface before applying. In this case it is very convenient to use Wencon UW Cream and Wencon UW Coating, which give a good adhesion.

Alternative products: Wencon Ceramic products

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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.