Painting instructions

Kongsberg echo sounder transducers

Approved anti-fouling paints

This is our list of approved antifouling paints for all transducer types. Always refer to the manufacturer's documentation and data sheets for a complete procedure and for relevant safety information.

Important

Do not paint the transducer with traditional hull plating paint. Use only the correct type of approved paint specified.

Do not use high-pressure water, sandblasting, metal tools or strong solvents to clean the transducer face.

Jotun

- Manufacturer: Jotun
- Address: P.O.Box 2021, N-3248 Sandefjord, Norway
- Manufacturer’s website: http://www.jotun.com

Products:

- SeaQuantum Ultra S
  - Primer: Safeguard Universal ES
    Apply 80 µm wet film thickness (50 µm dry film thickness).
  - Paint: SeaQuantum Ultra S
    Apply 250 µm wet film thickness (125 µm dry film thickness).
- Seaforce 200 AV
  - Primer: Safeguard Universal ES AV
    Apply 70 µm wet film thickness (50 µm dry film thickness).
- Paint: Seaforce 200 AV
  Apply 140 µm wet film thickness (90 µm dry film thickness).

Data sheets and application guides can be downloaded from:


International Marine Coatings

- Manufacturer: International Marine Coatings
- Address: Stoneygate Lane, Felling, Gateshead, Tyne & Wear, NE10 0JY United Kingdom
- Manufacturer’s website: www.international-marine.com

Products:

- Intersleek 1100SR
  - Primer: Intersleek 737
    Apply 50 µm dry film thickness.
  - Paint: Intersleek 1100SR
    Apply 150 µm dry film thickness.
- Intersmooth 7465Si SPC
  - Primer: Intergard 269
    Apply 40 µm dry film thickness.
  - Paint: Intersmooth 7465Si SPC
    Apply 100 µm dry film thickness.

The list can also be found on


Painting the transducer face

Marine growth (biological fouling) on the transducer face reduces the echo sounder transducers performance. We recommend that
you paint the transducer face immediately after installation, and then again as often as required to maintain the protection.

Prerequisites
The following tools and consumables are required.
- Personal protection
- Fresh water
- A mild synthetic detergent and a plastic brush
- Fine-grade sandpaper (240 inch grit size)
- Primer
- Anti-fouling paint
- Wet film gauge
- Airless spray

Because some paint types may be aggressive to the polyurethane in the transducer, consult our list of approved paints.

Context
The transducer has not been designed with any protection against biological fouling. Anti-fouling paint may therefore be applied to the transducer face. To minimize the negative acoustical effects the layer of anti-fouling paint must be as thin as possible.

Note

The anti-fouling paint will reduce the acoustical performance of the transducer. The surface roughness of the transducer substrate and the thickness of the paint may also influence the performance. Kongsberg Maritime cannot be held responsible for any negative consequences of the anti-fouling paint.

Procedure
1. Clean the transducer thoroughly.
   Make sure that you remove all oil grease residues, as well as salt and other contamination.
2. Allow the transducer surface to dry.
3. Abrane the transducer surface using a sanding paper with 240 inch grit size.
   Do not exceed a surface roughness ($R_{\text{max}}$) of 35 microns as this can influence the echo sounder transducers performance.
4. Remove all dust.
5. Apply the primer, and let it dry.
6. Apply the paint.
   Observe the instructions provided by the paint manufacturer. Use airless spray. Apply the minimum specified film thickness per coat and for the complete layer. It is not possible to measure dry film thickness on transducer surface. You must therefore use a wet film gauge to frequently measure the paint thickness.

Note

We strongly recommend that you do not use a paintbrush and/or a roller.

7. Allow the paint to dry.

Further requirements
The contractor or shipyard must keep a daily paint log recording all relevant information from the surface treatment.