# AKVANOR 81 PRIMER

**TECHNICAL DATA SHEET 1/20**

## PROPERTIES AND RECOMMENDED USAGE

**Paint type**
AKVANOR 81 PRIMER is a water-borne anti-corrosion primer based on an acrylic binder.

The product is a part of a complete system which meets the requirements of IMO FTPC being a material with low flame-spread characteristics and not producing excessive quantities of smoke and toxic products at elevated temperatures (Certificate NO VTT-C-11308-15-15).

**Typical and recommended uses**
AKVANOR 81 PRIMER can be used on steel, galvanized steel and aluminium indoors. It can also be applied on clean and undamaged shop primer or on old paint. AKVANOR 81 PRIMER is recommended in moderate corrosive environments (C1-C3) such as internal surfaces in ships, structural steel in warehouses and industrial buildings, iron and steel castings, electric motors, air-conditioning systems and steel doors.

**Safety**
Please follow the environmental and safety instructions displayed on the container and Safety Data Sheet. Use under well ventilated conditions. Do not breathe or inhale mist, use respirator mask. Avoid skin contact. Spillage on the skin should immediately removed with suitable cleanser, soap or water. In case of contact with eyes, rinse immediately with plenty of clean water and if necessary seek medical advice.

**Quality system approval according to Marine Equipment Directive 2014/90/EU**

**0809**

## TECHNICAL DATA

| | |
|---|---|
| **Volume solids*** | 46 % |
| **Total mass of solids*** | 770 g/l |
| **VOC value*** | 40 g/l |

* Values are calculated

**Packaging**

| | **Volume (l)** | **Size of container (l)** |
|---|---|---|
| Akvanor 81 Primer | 20 | 20 |

**Drying time 50 µm**

| | **+10 °C** | **+15 °C** | **+23 °C** |
|---|---|---|---|
| Surface dry | 45 min | 30 min | 15 min |
| To handle | 14 h | 6 h | 30 min |
| To recoat with<br>- water-borne paints<br>- solvent borne paints | <br>20 h<br>48 h | <br>6 h<br>36 h | <br>3 h<br>24 h |
| Fully cured | 48 h | 24 h | 20 h |

Drying times are typical on recommended film thicknesses at given temperatures.

**Calculated theoretical coverage and recommended film thickness**

| **Dry** | **Wet** | **Coverage** |
|---|---|---|
| 60 µm | 130 µm | 7.7 m²/l |
| 70 µm | 150 µm | 6.6 m²/l |

**Practical coverage**
Depends on wind conditions, structure to be painted, roughness of the surface and application method.

**Colour**
Oxide red, grey, off white

**Thinner**
OH 00

**Cleaner**
Water

**Finish**
Matt

## APPLICATION INSTRUCTIONS

### Surface preparations
All solid impurities that could prevent adhesion should be removed from the surfaces to be painted. Remove salts and other water soluble impurities using fresh water with brush, high pressure-, steam- or alkali cleansing. Remove grease and oils by alkali-, emulsion- or solvent cleansing (SFS-en ISO 8504-3, SFS-EN ISO 12944-4). The surfaces should be rinsed carefully with fresh water after cleansing. Old, painted surfaces, in which maximum overcoating interval has expired, additional roughening with suitable method is recommended. The place and time for the surface preparation should be chosen correctly, to avoid contamination and moistening of the treated surface before the paint application.

### Steel surfaces
Blast cleaning to a minimum of Sa 2½ (SFS-ISO 8501-1, SFS-EN ISO 8504-2).

### Shop primed surfaces
Blast cleaning of damaged or corroded areas to a minimum of Sa 2½. Undamaged areas should be thoroughly washed (SFS-ISO 8501-2, SFS-EN ISO 12944-4).

### Indoor aluminium surfaces
The surface should be cleaned from grease and other contaminants. Anodizing must be completely removed. Clean surface is roughened with sand paper. Cast aluminium surfaces are sand brushed before application.

### Galvanized surfaces
Light sweep blasting (SaS) or wet rubbing/grinding with a (5 %) ammonia solution followed by fresh water hosing (SFS-EN ISO 12944-4).

### Primer
AKVANOR 81 PRIMER

### Top coat
AKVANOR 80 TOPCOAT, AKVANOR 100, NORMACRYL 60, PILOT II

### Environmental conditions during application
The surface should be dry and clean. During application and drying time the temperature of the paint, air and surface should be above +10 °C and the relative humidity below 70 %. The best result will be achieved, if the surface temperature is above +15 °C and the relative humidity 50 %. The surface temperature should be min 3 °C above the dew point of the air. During application and drying time should take care of good ventilation. Note that evaporated water is lighter than air.

### Method of application
Use airless spray, mohair roller or brush. The paint must be thoroughly mixed before application. Can be thinned with ion exchanged water (thinner OH 00) if necessary (0-5 %). In order to ensure the best possible performance of the product, it is recommended that the paint is at room temperature before the application.

### Airless spray
Stainless steel. High pressure airless spray with a nozzle tip of 0,015" - 0,019" orifice. Spray angle depending on the object to be painted. To avoid solvent contamination of the water-borne paint the spraying equipment has to be conditioned before use. All equipment containing solvents in the pump, hoses and gun have to be thoroughly cleaned according to the following instructions. If the application equipment is made in stainless steel, designed for and only used for application of water-borne coatings this preparation and cleaning procedure is not needed.

### Before spraying
Circulate thinner OH 17 through the equipment and hoses. Then thinner OH 04 before fresh water.

### After spraying
Clean the equipment and hoses with water and detergent then circulate thinner OH 04 and finally thinner OH 17.

### Storage and shelf life
The product must be stored in original sealed containers at temperatures from 5°C to 30°C. The storage conditions are to keep the containers in a dry, well ventilated space away from source of heat and ignition. When stored as described above, the unopened product will keep up to 1 year from the date of manufacture. The manufacturing date found in the label is also the batch number of the paint.

### Disclaimer
The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, as the paint is often used under conditions beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without notice. Please contact our office for more specific information. The product is intended for professional use only. If there are deviations in the different language versions of the technical data sheets, the English version applies.