

# AKVANOR 100 SG

## TECHNICAL DATA SHEET 10/23

### PROPERTIES AND RECOMMENDED USAGE

#### Paint type

AKVANOR 100 SG is a fast drying, acrylic based water-borne semi gloss paint with rust preventing pigments. Suitable as primer or topcoat as well as a single coat/direct to metal (DTM) paint. Akvanor 100 SG has been tested according to standard ACT Volvo STD 423-0014 (rev. 6) and it fulfills the requirements. The test has been performed by the third party (Chemetall AB, Sverige).

#### Typical and recommended uses

Recommended on steel surfaces in environment classes C1 - C3. Suitable for fast painting of internal surfaces in ships, structural steel in warehouses and factories, iron and steel castings, electric motors, air conditioners and steel doors etc.

#### Chemical resistance

Used in recommended paint systems, and correctly applied withstands occasional splashes and spillage of water, oil and weak process chemicals. It is not resistant to acids and alkalis.

**Quality system approval according to Marine Equipment Directive 2014/90/EU. Approved as belonging to emission class M1 for building materials.**



0809

### TECHNICAL DATA

<b>Volume solids*</b>	49 ± 2 %
<b>Total mass of solids*</b>	700 g/l
<b>VOC value*</b>	40 g/l

\* Values are calculated

#### Packaging

	Volume (l)	Size of container (l)
Akvanor 100 SG	10 / 20	10 / 20

#### Drying time 100 µm

	+23 °C
Surface dry	30 min
To touch	45 min
To recoat	
- with itself	3 h
- with solvent based	24 h
Humid air resistant	20 h

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

#### Calculated theoretical coverage and recommended film thickness

Dry	Wet	Coverage
80 µm	165 µm	6.0 m <sup>2</sup> /l
100 µm	205 µm	4.8 m <sup>2</sup> /l
120 µm	245 µm	4.0 m <sup>2</sup> /l

As many of the paint's properties will change if too thick coats are applied, it is not recommended that the product is applied to a film thickness that is more than double of the thickest recommended film.

#### Practical coverage

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

#### Colour

A limited range from RAL and NCS colours. The objects painted with the same shade, but using different paint types, might have differences in the appearance and shade due to the variation in the paint properties, gloss levels and application methods.

#### Thinner

OH 00

#### Cleaner

Water

#### Finish

Semi gloss

**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.

**Cast iron and steel surfaces**

Blast cleaning to Sa 2½ (SFS-ISO 8501-1, SFS-EN ISO 12944-4).

**Shop primed surfaces**

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

**Aluminium surfaces**

The surface should be cleaned from grease and other contaminants. Anodizing must be completely removed. Clean surface is roughened carefully with sandblasting or sand paper. Cast aluminium surfaces should be sandblasted before application.

**Galvanized surfaces**

The surface should be cleaned from grease, other contaminants or zinc salts. Surface is roughened carefully with sandblasting.

**Primer**

AKVANOR 100 SG, AKVANOR 81 PRIMER

Primer has to be thoroughly undamaged and rustless before the topcoat is applied.

**Top coat**

AKVANOR 100 SG, AKVANOR 80 TOPCOAT, PILOT ACR, PILOT II, PIONER TOPCOAT

**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 +15 °C and the relative humidity below 50 %. The surface temperature should be min. 3 °C above the dew point of the air.

**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.

**Method of application**

Use airless spray, mohair roller or brush. The paint must be thoroughly mixed before application. Can be thinned with 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 (> 20 °C) before the application.** With airless spray use 100 Mesh (yellow) spray gun filter and a nozzle tip of 0,011" - 0,015" orifice. The spray angle depends 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. 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. Ensure the good ventilation during the application and drying time. (Note that evaporated water is lighter than air.)

**Before spraying**

Circulate thinner OH 17 through the equipment and hoses, then thinner OH 04/OH 13 before fresh clean water.

**After spraying**

Clean the equipment and hoses with water and detergent. Then circulate thinner OH 04/OH 13 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 product should not freeze.** 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.

**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.