

NORRAPID AQUA

PRELIMINARY TECHNICAL DATA SHEET 2/21

PROPERTIES AND RECOMMENDED USAGE

Paint type

Norrapid Aqua is alkyd based waterborne semi gloss paint. Suitable as primer, topcoat as well as a single coat paint.

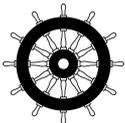
Typical and recommended uses

Recommended on steel surfaces in environment classes C1-C2 as a single coat (DTM). Designed for painting of ship internal areas, engine rooms, machinery rooms, accommodation areas etc. Suitable for painting of, structural steel in warehouses and factories, iron and steel castings, electric motors, air conditioners and steel doors etc.

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* | 43 ± 2 % |
| Total mass of solids* | 725 g/l |
| VOC value* | 42 g/l |

* Values are calculated

Packaging

| | Volume (l) | Size of container (l) |
|---------------|------------|-----------------------|
| Norrapid Aqua | 20 | 20 |

Drying time 100 µm

| | +23 °C |
|-------------|--------|
| Surface dry | 30 min |
| To touch | 1.5 h |
| To recoat | 5 h |

Drying times are typical on recommended film thicknesses at given temperatures. Curing time is dependent on the relative humidity (R.H. %) of air. In high humidity curing time will be slower.

Calculated theoretical coverage and recommended film thickness

| Dry | Wet | Coverage |
|--------|--------|-----------------------|
| 80 µm | 190 µm | 5.3 m ² /l |
| 100 µm | 235 µm | 4.2 m ² /l |

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.

Steel surfaces

Abrasive blast clean recommended to grade Sa 2½ (SFS-ISO 8501-1, SFS-EN ISO 8504-2). Tool cleaning to grade St2 (ISO 8501-1:2007) may be acceptable depending on strain conditions of the paint film.

Shop primed surfaces

Damaged or corroded surfaces are recommended to be blast cleaned to a grade Sa 2½. Undamaged surfaces should be washed (SFS-ISO 8501-2, SFS-EN ISO 12944-4). Cleaning according to SFS-EN ISO 8145-02...06 may be acceptable depending on strain conditions of the paint film.

Primer

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Top coat

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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 60 %. The best result will be obtained when the relative humidity is below 50 % and surface is above 15 °C. 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 of stainless steel, designed for and only used for application of water-borne coatings, there is no need for this cleaning procedure.

If the spraying equipment has been used for paint solvent-borne paints, cleaning before spraying:

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

Cleaning after spraying:

Clean the equipment and hoses with water. Then circulate thinner OH 04/OH 13 and finally thinner OH 17.

Cleaning of the spraying equipment when it is only used for paint water-borne paints:

1-component spraying equipment: Clean the equipment and hoses with water, if needed OH 04/OH13 and OH 17. After cleaning with OH 17, rinse the spraying equipment with OH 04/OH 13 and finally with fresh water.

2-component spraying equipment: Ask instructions from Nor-Maali Oy's sales department.

Ensure the good ventilation during the application and drying time. (Note that evaporated water is lighter than air.)

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 6 months from the date of manufacture. The manufacturing date found in the label is also the batch number of the paint.