



NORMAFINE HS ALUMINIUM

TECHNICAL DATA SHEET 1/19

PROPERTIES AND RECOMMENDED USAGE

Paint type

Normafine HS Aluminum is a two component, high gloss and high solids polyurethane paint with an aliphatic isocyanate curing agent. Paint contains rust preventing pigments.

Typical and recommended uses

Can be used in environmental classes C2-C3 as a gloss retaining and abrasion resistant single coat (DTM) on easily painted steel products such as machinery and equipment. Normafine HS is also used as a top coat in environmental classes C2-C5 on various primers. The paint is suitable as a maintenance coating on old paint surfaces.

Chemical resistance

Used in recommended paint systems and correctly applied, withstands occasional splashes and spillage of water, oil and weak process chemicals.

Weather resistance

Withstands sunlight and UV radiation.

Colour

Aluminium

Finish

Gloss

TECHNICAL DATA

| | |
|------------------------------|----------|
| Volume solids* | 65 ± 2 % |
| Total mass of solids* | 805 g/l |
| VOC value* | 330 g/l |

* Values are calculated

Mixing ratio

| | |
|--------------|-------------------|
| Resin | 4 parts by volume |
| Cure | 1 part by volume |

Pot life (+23 °C)

approx. 45 min after mixing

Packaging

| | Volume (l) | Size of container (l) |
|--------|-------------------|------------------------------|
| Comp A | 8 | 10 |
| Comp B | 2 | 2 |

Drying time 50 µm

| | +23 °C |
|-------------|---------------|
| Surface dry | 30 min |
| To touch | 1.5 h |
| To recoat | 5 h |
| Fully cured | 7 d |

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

Calculated theoretical coverage and recommended film thickness

| Dry | Wet | Coverage |
|------------|------------|-----------------|
| 60 µm | 95 µm | 10.5 m²/l |
| 80 µm | 125 µm | 8.0 m²/l |
| 120 µm | 185 µm | 5.4 m²/l |
| 150 µm | 230 µm | 4.3 m²/l |

Practical coverage

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

Thinner

OH 10, OH 66 (slow)

Cleaner

OH 17

APPLICATION INSTRUCTIONS

Surface preparations

All solid impurities that could prevent adhesion should be removed from the surfaces to be painted. Re-move salts and other water soluble impurities by wet cleansing 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.

Steel surfaces

Blast cleaning to a min. of Sa 2½ (SFS-ISO 8501-1, SFS-EN ISO 8504-2). Cold rolled plates must be roughened with abrasive paper.

Shop primed surfaces

Damaged or corroded surfaces should be blast cleaned to a grade of Sa 2½ (SFS-ISO 8501-2, SFS-EN ISO 12944-4).

Primer

EPOCOAT 21 PRIMER, EPOCOAT 21 HB, JOTACOTE UNIVERSAL, NORECOAT FD PRIMER, NORECOAT HS, NORMASPEED UNIVERSAL, NORMASTIC 405, NORMAZINC SE, PENGUARD EXPRESS

Top coat

NORMAFINE HS Aluminium

Environmental conditions during application

The surface should be dry. During application and drying time the temperature of the paint, air, and surface should be above +10 °C and the relative humidity below 80 %. 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 an airless spray, electrostatic spray or brush. Stir the resin and cure separately and then mix both components thoroughly. The mixing ratio is 4 : 1 (resin : cure) by volume. If needed 0 - 10 % thinner (OH 10) may be added. Use a high-pressure airless spray with a nozzle tip of 0.011" – 0.015" orifice. Don't use an adjustable spraying nozzle. The spray angle depends on the object to be painted. Aluminium shades are usually darker with airless spray application compared to the conventional spray. Also the use of brush or roller in the paint application gives different orientation into the aluminum flakes (e.g. variation in shade). In order to ensure the best possible performance of the product, it is recommended that the paint is at room temperature before the application.

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 component A will keep up to 2 years and unopened component B to 1.5 years from the date of manufacture. The date of manufacture is indicated in the label of the paint can as a batch date.

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.