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Technical Data Sheet

PU Single-Coat Paint HS 6044

Material description:

2-component high solid polyurethane single-coat paint with low VOC content (approx. 300 g/l).

Designated use:

Functional coating for interior and exterior use, primarily suited to the coating of iron, steel and cast iron without previous primer coating. Designed to achieve high-quality surfaces, good corrosion protection properties and excellent durability in the course of normal stress.

Properties:

- economical use of energy, material and operational hours
- outstanding stability (approx. 300 µm DFT)
- excellent protection against corrosion (C4 high)
- single-layer application without primer
- rapid drying time
- extremely weatherproof
- good resistance to chemicals

Binder system:

Aliphatic polyurethane resin

Pigment system:

Weatherproof coating pigments and special functional fillers

Solid content:

Approx. 79 wt. % in the finished mixture
(percentile is dependent on shade)

Flash point:

Approx. 25 °C (mixture)

Density:

Approx. 1,3 g / cm^3 in the mixture
(percentile is dependent on shade)

Temperature resistance:

Up to approx. 120 °C (no long-term stress)

Pot life:

The prepared mixture can be applied for approx. 2 hrs under normal conditions.

Can size:

2,5-kg can incl. RICKERT PU Hardener HS 6040;
other can sizes by arrangement.

Degree of gloss:

Satin-gloss

Shades:

As per RAL, NCS, British Standard etc. and as per colour samples; also in the express service programme.

Coverage:

Approx. 3.5 m^2 / kg finished mixture with a resulting dry film thickness of around 150 µm.

Viscosity supplied:

Shear thinning

Storage:

Store in a cool and dry, yet frost-free, place

Mixing ratio:

6 parts by weight PU Single-Coat Paint HS 6044
1 part by weight PU Hardener HS 6040

Labelling and safety advice:

See safety data sheet

Thinning and cleaning agent:

RICKERT PU Thinner 0045

Surface preparation:

The surface must be properly prepared as well as being free from oil, grease and dirt. Mill scale, rust and old coatings should be removed completely by mechanical or chemical means. A result comparable to the standard grade of cleanliness SA 2½ (DIN EN ISO 12944) should be aimed for.

Very smooth surfaces (cold-rolled sheet metal, turned steel surfaces, aluminium, and the like) should be abraded as far as possible and prepared using RICKERT Metal Primer 2091 Rapid.

Galvanised surfaces should be cleaned by steam blasting if need be or passivated with ammoniacal solution by using a corundum plastic pad.

Detailed information is to be found in Information Sheets 5 and 6 of the Federal Committee for Paint and Protecting Agents (BFS).

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Application:

Combine both components in the correct mixing ratio and mix thoroughly.

a) Brush or roller:
Apply coating undiluted as far as possible.

b) High-pressure spraying:
Dilute coating with PU Thinner 0045 to approx. 25 - 35 s DIN 6 mm and apply with a 1.6 to 2.5-mm nozzle at 2 - 5 bar pressure.

c) Airless / Airmix method:
Dilute coating with PU Thinner 0045 to approx. 45 s DIN 6 mm. The pressure should be approx. 140 bar and a 0,011" to 0,013" nozzle should be used.

Application conditions:

Object and ambient temperature should be at least 8° C. The relative humidity should not exceed 85%. The optimum application temperature is between 20° and 30° C.

Drying:

Approximate values, determined at 20° C and approx. 150 µm dry coat; deviating values lead to changed drying properties:

dust-dry:	approx. ½ hr	T1
tack-free:	approx. 5½ hrs	T3
touch dry:	approx. 7 hrs	T4

At lower temperatures, a longer drying time should be allowed for.

Forced drying:

Approximate values, determined at 50° C object temperature and approx. 150 µm dry coat; deviating values lead to changed drying properties:

dust-dry:	approx. 20 min.	T1
tack-free:	approx. 30 min.	T3

A flash-off time of approx. 10 minutes should be maintained before the forced drying.

Cleaning the equipment:

Clean with RICKERT PU Thinner 0045 immediately after use.

The purpose of this data sheet is to advise you. While all details conform to the latest state of the art, we can accept no liability for the results obtained during use, due to the variety of applications and the different substrates involved.

The publication of this data sheet invalidates all previous data sheets for this product.

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