

Product Data Sheet

NewPro-Therm +600

Product Description

NewPro-Therm +600 is a special single-component aluminum finishing coating based on silicon resin for high temperature ranges and is temperature-resistant to +600°C. NewPro-Therm +600 is therefore designed as a finishing coating for hot piping, chimneys and machines and plant components for both exterior and interior areas.

Technical Information

Density (DIN 53217/+20°C):

- Approximately 1.05 g/ml.

Solid State:

- Volume: approximately 35%.

VOC-Value:

- Approximately 550 gr./Liter.

For further details, please see the safety data sheet for this product.

Instructions for Application and Use

Surface Preparation & Pre-treatment:

Surfaces must be clean, dry and stable. Weathering, cracking and imperfect adhesive coatings must be completely removed. If necessary use a priming coat according to proper specifications. Blasted steel, purity grade Sa 2 ½ (ISO). Also for smaller reparations metallically pure smoothed steel. Rework existing, fixed, adhesive old coatings for surface pre-treatment and check the adhesion and stability.

Notice:

The quality of the coating depends on a variety of conditions, such as the surface pre-treatment, the weather conditions during the application and the drying as well as the care taken during the processing and application of the coating. The stability and the adhesion of the old coatings should be tested prior to beginning the application of the final coating.

Mixing Instructions:

NewPro-Therm +600 comes in its delivered consistency ready for direct application.

NewPro-Therm +600 can be diluted, if necessary, with NewPro-SOL Special Dilution (spray-dilution for artificial resin coatings and custom dilution for certain products) – follow the instructions for dilution on the respective package.

Instruction for Application

Application:

Prior to application and use, thoroughly mix NewPro-Therm +600 with the appropriate mechanical mixing device. Pay careful attention to the cleanliness of tools, because even the slightest dirt or grime or remaining moisture on the tools can greatly impair the final coating. In its delivered viscosity apply NewPro-Therm +600 using a paintbrush, a roller, a spray/airless device or a pressurized air spray device. The recommended dry layer thickness is 20 – 30 µm. The mechanical capacity is reached only at temperatures from +400°C.

If necessary a dilution with NewPro-SOL Special Dilution (spray-dilution for artificial resin coatings and custom dilution for certain products) is only possible for the cleaning of devices.

Machine Application:

NewPro-Therm +600 can be applied using a standard spray/airless device. Pay careful attention to the manufacturer's instruction.

The following standard values are recommended:

Pressure of Spray:

- Spray Pressure 3.0 – 4.0 Bar
- Spray Valve 1.0 – 1.5 mm.

Spray/Airless Spray:

- Pump compression ratio min. 1:60
- Spray Pressure 100 - 120 Bar
- Spray Valve 0.18 – 0.23 mm.

Notice Regarding Machine Application:

Carry out spraying under dry air conditions.

If necessary and possible use a water separator.

Warning:

Apply coating only in well-ventilated rooms or in open areas.

Amount of Product to be Used:

- Approximately 14 m²/Liter for a dry coating thickness of 25 µm.

These values are only achievable using spray application.

An exact amount of material necessary must be determined by a test coating on the object.

Conditions for Application

The application and drying can be effectuated at a surface and area temperature between a min. +5°C and max. +30°C. Humidity also should not exceed 85%. Pay careful attention to the dew point.

During drying, protect coated surface from rain and direct sunlight.

Warning:

Apply product only in well-ventilated or open areas.

Conditions for Application

Drying Times:

T [°C] min. Interval [h]

+5°C 36 h

+10°C 16 h

+20°C 8 h

+30°C 4 h .

The mechanical capacity is reached only at temperatures from +400°C.
The drying time depends on the temperature and relative humidity.

Cleaning of Tools:

- Clean immediately after use with water and if necessary cleaning agents.

Quality of the Coating

The quality of the coating depends on a wide range of conditions, such as the surface pre-treatment, weather conditions during application and drying as well as the care taken during the process of the application of the coating. The best results can be achieved with spray cleaning in compliance with DIN 55928, Part 4 or DIN ISO 12944-4, Standard Grade of Cleanliness SA 21/2. The stability and adhesion of old coatings should be checked with a test coating. Weathered, cracked and imperfect adhesive coatings must be completely removed. Thoroughly mix product prior to application with a mechanical mixing device. For the application of two-component products the contents of the hardener/curing agent container should be completely emptied into the container with the base component. Allow the hardener to completely flow out of the container. Thoroughly mix the base component and the hardener, preferably using a mechanical mixing device, pour contents into a new container and mix again. Make sure that the tools and devices are thoroughly clean.

Even the slightest dirt or grime or remaining moisture on the tools can greatly impair the quality of the final coating. Ensure dry air conditions for spray application (if necessary using water separator).

Delivery Form

Packaging Units:

5 Liter canister with closure for repeated use.

Color:

- Color tone (aluminum) see closure cap.

The color tone can slightly vary.

Further Information

Transport:

- Unlabelled and non-hazardous.

Storage:

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**GRAFFITI
MAGIC**



- 12 Month storage life at +20°C in the original closed container
- Un-emptied containers close tightly and use up as soon as possible

Further Information

Storage:

- Cool and frost protected in original closed package.

Disposal:

- Recycle completely emptied containers only
- Disposal of product waste in state officially designated disposal sites
- Do not dispose of the product in the public sewer system or into other sewage access systems.

Work Hygiene

Wash hands thoroughly prior to breaks and after using product. Do not eat, drink or smoke while working with the product. Avoid skin and eye contact. If necessary, wear protective safety clothing.

For further information, please refer to the product safety data sheet for this product.

Safety Precautions

Keep away from children. Keep containers sealed tightly closed. In the event of eye contact, immediately flush eyes out with lots of clean water. In the event of skin contact, wash skin thoroughly with water and soap. Do not use any solvents or cleaning agents with the product. If necessary seek medical advice. Do not smoke during application and use. If swallowed seek immediate medical advice and show the packaging or product label to the treating physician.

For further instruction, please refer to the product data safety sheets for the product.

Safety and Protective Measures

The general protective measures for water-soluble materials are to be taken. The technical advice regarding the use and application of our products is the result of extensive research and development as well as many years of experience, according to the best of our knowledge. The different kinds of requirements of an object, under varying conditions, make it necessary for the user to check the suitability for the intended purpose. We reserve the right to effectuate changes, which serve to affect the technical advance or improvement of our product.

For further instruction, please refer to the product data safety sheets for the product.