

PSC 555T HP

Technical Data Sheet

Power Smart Coat 555 Tempering/Effective Coating

Silicate coating with thermo-reflective properties for the coating of surfaces with continuous operating temperatures up to 555 °C.

DOCUMENT

PSC-TDS-555T EN

VERSION

1.0

ISSUE

October 2026

Issued by

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Silicate coating with thermo-reflective properties for the coating of surfaces with continuous operating temperatures up to 555 °C.

GENERAL DATA

PSC 555T HP is a thermo-reflective silicone coating designed for coating of surfaces with continuous operating temperatures up to 555 °C. It is non-toxic, environmentally friendly and forms a protective membrane. It is resistant to dirt and diluted chemicals. The silicate coating is additionally filled with microspheres with thermal insulation and thermo-reflective properties.

APPLICATION

PSC 555T HP is designed for coating new and old metal surfaces (enclosures) with continuous operating temperatures up to 550 °C. Can also be applied to concrete and ceramic surfaces.

TECHNICAL DATA

Classification according to EN 1062-1: 2005

Designation according to the chemical nature of the film-forming substance	Silicone-silicate
Identification according to dissolution state	Water-based
Colour	White and/or beige
pH	Approx. 9
Density by volume	1,0±5%
Recommended maximum film thickness	Up to 3 mm applied in three layers

SURFACE PREPARATION

All surfaces must be clean and free from dirt (dust, dirt, oil and grease) and rust. Any loose non-bonded coats should be removed. To clean the metal, use a wire brush, sandpaper or sandblasting. Smooth surfaces should be mechanically roughened. For roofs, washing the surface with pressurised water or sandblasting is recommended.

CONTENT OF VOLATILE ORGANIC SUBSTANCES (VOC)

Less than 10 g/l

USE OF PSC MATERIAL PER 1 m²

(one coat on all suitable surfaces with a perfect horizontal surface)

At 0,15 mm thickness: 0,18 litres per 1 m²

At 0,20 mm thickness: 0,24 litres per 1 m²

At 0,25 mm thickness: 0,30 litres per 1 m²

APPLICATION

Apply to surfaces at an ambient temperature of -5 to 30 °C in a single coat of up to 1 mm. Time before second coat application: min. 6 hours depending on temperature and relative humidity. Do not apply the product in case of rain.

WARNING: In any case, the application of the next layer must not be carried out on a damp surface!

MIXING

PSC 555T HP is a water-based product. Water can be added in an amount of up to 10% by weight.

APPLICATION EQUIPMENT

Recommended equipment: metal trowel, roller or spray. A brush can be used on very small areas. When applying the product with a brush, three cross coats should be applied to ensure adequate protection.

PACKAGING

Plastic bucket - capacity 10 litres

TRANSPORT WEIGHT

Net weight [kg/liter]: 0,95± 0,5%

STORAGE

Store:

- in original and tightly closed packaging, at temperatures between +5 °C and +25 °C
- indoors, away from heat sources

The product is water-based and will deteriorate at negative temperatures.

SHELF LIFE IN PACKAGING

12 months from date of packaging (protect from frost and direct sunlight)

IGNITION TEMPERATURE

Non-flammable (water soluble)

PRODUCT CODE

Production lot: see package

WARRANTY / Protection time

12 months / 25 years

EXCLUSIVE REPLACEMENT

The sole compensation for goods that do not comply with the guarantee is the replacement of the product. The manufacturer is not liable for any damages, including (but not limited to) wage costs.

NOTE: Further information can be found in the instructions.