PSCOAT

POWER SMART COAT

PSC-250T/ECI - INTERIOR

Technical Data Sheet

PSC 250T/ECI - INTERIOR

Acrylic based, thermal reflective paint designed for building inner walls.

DOCUMENT	VERSION
PSC-TDS-INTERIOR EN	**1.0**

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> *Acrylic based, thermal reflective paint designed for building inner walls.*

Applying PSC 250T/ECI - INTERIOR provides benefits such as:

- reduction of heating/air-conditioning costs (by up to 50%)
- decrease/increase of ambient temperature
- pollution reduction in urban areas
- easy recycling
- insulation space savings due to the use of nanotechnology
- protection from corrosion
- protection from biological corrosion
- thermal insulation

GENERAL DESCRIPTION

PSC 250T/ECI - INTERIOR is a highly efficient thermal insulation and protection material for buildings inner walls. It is completely washable and resistant to dirt and diluted chemicals. The acrylic resin based paint uses the microspheres technology (Swiss formula). Each cell is sealed with a vacuum. Thermal resistance and insulating properties create a synergic effect in reducing surface heat transfer. The coating is also air permeable, waterproof and has an excellent surface adhesion. High solar reflectivity and low conductivity create a perfect insulation effect. The paint is available in many color shades. Because of its reflective properties, it is advised to choose a light one (red, orange, yellow, green, blue, violet).

POSSIBLE APPLICATIONS

The paint can be used on mineral-based surfaces: cement, lime-cement, gypsum and concrete plasters etc. It is both energy efficient and elastic. It is nontoxic, environmentally friendly and form a single membrane that overlaps the hairline cracks. The paint is fully washable and resistant to dirt and chemicals. It is suitable for use in climatic conditions where energy costs play an important role in maintaining a favorable temperature environment. The material is resistant to corrosion and water condensation.

CLASSIFICATION ACCORDING TO PN-EN 1062-1: 2005

Classification according to chemical properties	**Acrylic based resin aqueous dispersion**
Classification according the state of dissolution	**Water-dilutable**
Gloss 85° ≤ 10 (Matt)	**G3**
Coating thickness > 50 ≤ 100	**E2**
Grain volume (fine-grained). Marked according to PN-EN ISO 1524:2002 (EN 21524) equals: up to 100 µm	**S1**
Water vapour diffusion (Medium) ≤ 150 > 15 g/m2·d	**V2**
Water permeability (Small) ≤ 0,1 kg/m2·h0,5	**W3**
Covering of cracks	**Not tested**
Carbon dioxide permeability	**Not tested**

Code mark: PN-EN 1062-1 G3 E2 S1 V2 W3 - -

CLASSIFICATION ACCORDING TO PN-EN 1504-2: 2006

Water absorption W [kg/m2H0,5] according to PN-EN 1062-3: 2008	**W<0,1**
Impact resistance [Nm] according to PN-EN ISO 6272-2: 2011	**Class I ≥ 4**
Fatigue load [N] according to PN-EN 1542: 2000	**1400**
Adhesion [N/mm2] ≥0.8 according to PN-EN 1542: 2000	**0,8**
Damage type according to PN-EN 1542: 2000	**A**
Abrasion resistance (load 1000g / number of cycles 1000) [mg] according to PN-EN ISO 5470-1: 2017-02, weight loss in [mg]	**0,90**
Improvement of wear resistance (load 1000 g / number of cycles 1000) [%], according to PN-EN ISO 5470-1: 2017-02	**≥30**

INSULATION PROPERTIES

PSC 250T/ECI - INTERIOR has a reflection factor value (TSR) of 92 ± 1% and thermal conductivity of 0,0324 W/mK. Traditional insulation paints just absorb sunlight, their formula slowing thermal exchange. In contact with PSC 250T/ECI - INTERIOR, the majority of sunlight energy is reflected back from the surface, the rest absorbed by the coating or removed as infrared rays.

SURFACE PREPARATION

All surfaces must be clean and free of efflorescence (dust, dirt, oil and grease). In case of a facade renewal it is advised to perform a detailed surface check and:

- remove old coating and all loose elements
- clean all dirty/oily spots

- in case of severe/permanent smudges apply sandblasting
- in case of fungal infection apply the appropriate agents
- level all roughness using cement or lime-cement based plasters
- before applying paint, apply the universal deep-penetration primer or PSC 250T/ECI – INTERIOR, watered down 1:1.

COLORS

The standard color is white. Other shades can be prepared on request using water-soluble dyes (eg Jotun, Hempel, Nippon).

NOTE: We recommend using light shades, darker colors have lower reflection of sunlight.

CONTENT OF VOLATILE ORGANIC SUBSTANCES

less than 10 g/l

CONSUMPTION OF PSC MATERIAL ON 1 m2

(one layer on all applicable surfaces with ideally level surface)
At a thickness of 0,15 mm: 0,18 liters per 1 m2
At a thickness of 0,20 mm: 0,24 liters per 1 m2
At a thickness of 0,25 mm: 0,30 liters per 1 m2

TIME OF EXCLUSION

Time before applying PSC 250T ECI-INTERIOR: min. 1,5 hours according to temperature and relative humidity (see Manufacturer's instruction + Application manual - drying chart). Do not apply the product in case of rain or if the rain may start before the paint dries sufficiently. The ambient temperature and the temperature of the surface should be between +5oC and +30oC. Air humidity should be lower than 80%.

WARNING: In all cases, the paint cannot be applied on a wet surface.

MIXING

PSC 250T/ECI – INTERIOR is diluted with water before use. Dilute only the amount of product you use. The water used for dilution should not exceed 0.3l per pack. Mix the diluted mixture with a mixer at low speed (up to 150 rpm) for 3-5 minutes in mechanical mixers and 5-7 minutes with manual mixing. For detailed information please consult Manufacturer's instruction + Application manual.

APPLICATION EQUIPMENT

Recommended equipment: roller brushes or spraying machines. Brush can be used on very small areas. When applying the product with a brush, it is necessary to apply three cross layers to ensure adequate protection.

APPLICATION PROCEDURES

We recommend using the GRACO RTX 5500 for the application of structured surfaces, and GRACO MARK V or GRACO MARK VII (see manufacturer's specifications) for smooth surface applications.

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PACKAGING

Plastic buckets of 18 liters (5,3 gallons) or other according to the buyers request.

ADDITIONAL TRANSPORT WEIGHT

Net weight per liter: 0.90±0,05 kg
Plastic bucket 18 liters (5.3 gallons): 16,2kg
Bucket size: 34 cm width x 32 cm height

STORAGE

- in original and properly sealed containers, in temperature between +5 oC and +25oC
- in sealed rooms, away from heat sources.
- The product is water-dilutable and will be destroyed in sub-zero temperatures.

SHELF LIFE OF PSC IN PACKAGING

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

IGNITION TEMPERATURE

Non-flammable (water-soluble)

PRODUCT CODE

PSC 250T/ECI - INTERIOR
Batch number: see package

WARRANTY / Protection time

1 year / 25 years

EXCLUSIVE REPLACEMENT

Exclusive compensation for goods that does not correspond to the warranty provided is the replacement of the product. The manufacturer is not responsible for any damages, including (but not limited to) wage costs.

LEGAL DOCUMENTS

PN-EN 1062-1: 2005 Paints and varnishes. Varnish products and coating systems.

PN-EN 1504-2: 2006 Products and systems for the protection and repair of concrete structures. Definitions, requirements, quality control and conformity assessment. Part 2: Concrete surface protection systems.

Declaration of Performance, CE

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