

TECHNICAL CARD

ATF PSC 250T FLOOR

Power Smart Coat – 250Temperature FLOOR

A water-soluble material based on acrylic resin filled with ceramic nanospheres with thermo-reflective properties, intended for application on floors.

1. MAIN ADVANTAGES

Application ATF PSC 250T FLOOR provides following benefits:

- Cost reduction cooling / heating (up to 35%)
- Insulation thermo-reflective inside buildings for various types of floors and for use on any building material, except for plastics from the PP group;
- Prevents the penetration of thermal energy,
- Easy application, thanks to the possibility of applying the coating both manually behind with a brush, how and mechanically by spraying.
- Short labor cost, in compared to traditional insulation, speed of work;
- Extending the life of the surfaces used,
- uniform and uninterrupted structure, which eliminates bridges thermal and provides thermo-reflective parameters with the same values on the entire applied surface,
- Fully washable, resistant to dirt and chemicals (C4 and C5),
- Saving places thanks thin layer insulation, easily repairable
- Protection against water vapor condensation
- Security Before corrosion biological, no mold or fungus growth,

2. DATA GENERAL

ATF PSC 250T FLOOR is a highly efficient, energy-saving and flexible coating for surface insulation and sealing. It is non-toxic, environmentally friendly and creates single membrane, which cover microcracks. Is In full washable and resistant to dirt and chemicals. Resin based water based coating acrylic filled with microspheres (Swiss patent). Every cell is sealed with a microsphere by means of a vacuum. Thermal resistance and properties insulating materials cause a synergistic effect in reducing the surface transfer warm. The paint has excellent insulating properties, it is vapor impermeable, but also waterproof and adhesive to the ground. High reflectivity radiation solar and low conductivity they create ideal effect insulation.

The coating is available in many different color shades. Because of the function reflections, shades of light are particularly recommended (from red through orange, yellow, green, blue and violet). After application, it creates a pleasant matte finish surface.

Permanently bonds with the substrate, environmentally friendly (water dispersion), resistant on factors atmospheric, radiation UV. The coating is vapor-permeable, quick-drying, has very good properties mating.

NO use : on PE, HDPE, PP, PTFE and selected plastics artificial

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3. APPLICATION

The ATF PSC-250T FLOOR coating is mainly used as a layer for coating new and old floor surfaces in homes and industrial facilities. It can also be used to paint surfaces under electric underfloor heating as a thermo-reflective layer. It is non-toxic, environmentally friendly and forms a membrane that covers micro-cracks. It is fully washable and resistant to dirt and chemicals (C4 and C5). Suitable for use in various climatic conditions. The coating is perfect corrosion resistance biological, does not cause the development of fungi and mold.

4. DATA TECHNICAL

CLASSIFICATION ACCORDING TO PN-EN 1062-1: 2005

Term		
Term According to chemical character substancefilm-forming	Water dispersion resin acrylic	
Term That matter on state dissolution	Water-soluble	
Classification		
Gloss 85° ≤ 10 (Mat) according to PN-EN ISO 2813:2014	G 3	0.0
Thickness shell > 50 ≤ 100	E 2	55
Size seeds. (Minor). Marked according to PN-EN ISO 1524:2012 (EN 21524) on the sieve is: up to 100 μm	S 1	0.0
Factor penetration couples according to PN-EN ISO 7783:2012 (Medium) ≤ 150 > 15 [g/m ² d]	V 3	19 ± 3
Diffusion equivalent air layer thickness according to PN-EN ISO 7783:2012 Sd [m]	1.08	
Water permeability (little) ≤ 0.1 [kg/m ² h ^{0.5}]	W 3	0.02 ± 0.01
Covering lynx	no examined	
Permeability oxygen coal	no examined	

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5. Designation code

PN-EN 1062-1	G 3	E 2	S 1	V 3	W 3	-	-
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Classification according to PN-EN 1504-2:2006

Term and classification	
Absorption water IN [kg/ m ^{2H} 0.5] according to PN-EN 1062-3:2008	W<0.1
Resistance per impact [Nm] according to PN-EN ISO 6272-2:2011	Class II ≥ 10
Load at failure, [N] according to PN-EN 1542:2000 Adhesion [n/mm ²] ≥0.8 according to PN-EN 1542:2000 Type damage according to PN-EN 1542:2000	1420 0.8±0.01 A
Resistance on abrasion (load 250g/quantity ticks 500)[mg] according to PN-EN ISO 5470-1:2017-02, Mass loss in [mg]	0.040 ± 0.004
Improvement resistance on abrasion (load 1000 g/quantity cycles 1000) [%], according to PN-EN ISO 5470-1:2017-02	≥30

parameters complementary

no	Parameter	Method tests	Value declared
1	Test SBI In range reaction on fire	PN-EN 13501-1+A1:2010	B-s1, d 0
2	Classification In range reaction on fire - flame range above 150 mm above the point application of flame in time 60 p - occurrence burning droplets/solid waste causing inflammation filter paper	PN-EN ISO 13832:2010 - Fs ≤ 150mm in thrust 60 p PN-EN ISO 11925-2:2010 - lack burning drops /waste constants causing inflammation material filter	- compatibility - compatibility
3	Conductivity warm [W/m*K] lambda	PN-EN 1745:2004; PN-EN 1745:2004/Apl:2006	0.000416
4	Density volumetric [g/ cm ³]		0.90 ± 0.05
5	Efficiency [kg/m ²] at thickness coatings 0.35 mm	depending on the way application	about 0.34
6	Weight per unit area [kg/m ²]		about 0.96
7	pH factor		8-9

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6. INSULATION - THERMOREFLEXIVENESS

ATF PSC 250T FLOOR has a reflectivity (TSR) of $92 \pm 1\%$ and conductivity thermal $0.0324 [W/m \cdot K]$. Conventional paint insulating absorb light solar, and their effect consists only in slowing down the heat exchange. In the shell ATF PSC 250T FLOOR Most of the sunlight is reflected off surface, and remained energy Is absorbed By superimposed coating or discharged back down atmosphere In characters infrared radiation. This action applies to both warm and cold climates.

7. PREPARATION SUBSTRATES

All surfaces they must to be clear and deprived efflorescence (salting out, dust,dirt, oil and grease). The surface before application must be stable, even, dry and free of dust.

NOTE : before applying the ATF PSC FLOOR coating to the floor, always prime the surface with ATF PSC BASIC B primer.

IN case surface undergoing renovation recommends myself detailed rating state the ground and:

- check the stability of old coatings on the floor, remove non-durable ones elements,
- wash off greasy stains and raids, dry ,
- In case difficult and permanent dirt apply sandblasting, dedusting,
- In in case of severe fungus apply appropriate preparations fungicidal,
- all substrate leveling work should be done before application
- before applying the coating, prime the surface with ATF PSC BASIC B.

8. COLORS AND DYEING

Standard coating color it's white . Can be dyed in any color according to RAL's color chartwith the help of solubles In dye water (e.g. Jotun , Hempel, Nippon). In production shades they can to be prepared on request – the minimum order quantity is 500 liters of ATF PSC 250T FLOOR coating.

Attention: we recommend use bright shades, darker colors May smallerreflection of sunlight and reduce the effectiveness of thermal insulation.

9. WEAR MATERIAL PSC ECF FLOOR NA 1 m²

(one layer on all appropriate surfaces about perfect horizontalsurface)

with thickness 0.15mm: 0.20 liter on 1 m²

by thickness 0.20mm: 0.26 liter on 1 m²

with thickness 0.25mm: 0.34 liter on 1 m²

Average material consumption with 2 layers of ATF PSC 250T FLOOR for the total thickness of 0.35 mm is, depending on the method of application, from 0.27 to 0.35 liters on 1 m² for a flat surface.

Correct application of the primer with ATF PSC BASIC B coating ensures better application ATF PSC 250T FLOOR coatings and reduced material consumption.



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10. COATING DRYING TIME (SEASONING)

Time before imposition second ATF PSC FLOOR layer, wait min. 4 hours in dependence from temperature and relative humidity (see manufacturer's instructions - drying table) until the coating is COMPLETELY dry over the entire thickness. Temperature environment and painted surface She should to be between +5 °C and +30 °C Relative humidity air should be lower than 80%.

Warning: In any case, the application of the next layer can not be implemented on wet surface of the previous layer!

11. MIXING

ATF PSC 250T FLOOR can be diluted with water before use. Dilute Just quantity used product. The amount of water used down dilutions no it should exceed a m a x i m u m of 0.2 l on packaging 18 liters of coating. A mixture of water and coating is mixed with a little speed (down 150 turnover on minute) By 3-5 minutes In mixers mechanical and 5-7 minutes by manual mixing. Specific information are located In instructions producer's + instruction application.

12. EQUIPMENT APPLICATION

Recommended equipment: brush, roller or spray device. Brush can be used on very small surfaces or during filling material losses (repairing mechanical damage). While overlapping product behind help brush belongs apply three layers cross, To to ensure proper layer thickness and protection.

12. PROCEDURES APPLICATION

We recommend using the Graco RTX 5500 for applying textured surfaces, a for smooth surfaces we recommend GRACO MARK V5 - V7 (see specifications producer's). For more information, see the device manufacturer's manual and the application manual.

13. PACKAGING

Plastic bucket 18 liters (4.76 US gal or 3.96 UK gal) size buckets:
34 cm width x 32 cm height
Plastic bucket 10 liters - size buckets: 33 cm width x 22 cm height.
Possibility of other packaging agreed with recipient.

14. WEIGHT TRANSPORT

net weight on liter: 0.90±0.05kg
Plastic bucket 18 liters weight: 16.2 kg
Plastic bucket 10 liters weight: 9.2 kg

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15. STORAGE

Store indoors, away from heat sources.

In original and tightly closed packaging, at a temperature between +5°C and +30°C.

Up to 4 layers of packaging can be stacked on top of each other. The product is water-soluble and is destroyed in sub-zero temperatures during storage or transport.

16. CONTENTS FLIGHTS SUBSTANCE ORGANIC PN-EN ISO 11890-1:2008

Determination of volatile organic compounds (VOC) content (VOC) less than 19 hours / 1

17. PERIOD STORAGE IN PACKAGING

12 months From dates packing (protect Before freezing and directinsolation)

18. FLASH POINT

The product is marked as non-flammable (soluble in water) and non-drip.

19. CODE PRODUCT

ATF PSC 250T FLOOR Party production: see package label

Packaging 18 liters EAN 128 code No. 7421351511886

Packaging 10 liters EAN Code 128 No. 7421351511893

21 WARRANTY / Protection time

2 years depending on application method / 25 years

22. EXCLUSIVE EXCHANGE

The sole remedy for goods that do not conform to the warranty is replacement product.

The manufacturer is not responsible for any damages, incl (between other) salary costs.

ATTENTION: Further information you can find in instructions

23. DOCUMENTS FORMAL AND LEGAL

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

PN-EN 1504-2:2006 Products and systems down protection and fix construction concrete. Definitions, requirements, quality control and conformity assessment. Part 2: Systems concrete surface protection

CE declaration of performance