TÜV Verified product
No: 0000065408
www.certyfikat.tuv-nord.pl

Technical data sheet

ATF PSC 250T BUILD
ATermFarb Power Smart Coat 250Temperations BUILD

Water-based, vapor-permeable acrylic resin material filled with ceramic nanospheres intended for thermal insulation and protection of building surfaces.

1. MAIN ADVANTAGES

Application of ATF PSC 250T BUILD outdoors or indoors provides following benefits:

- Cost reduction energy and cooling / heating (up to 50%)
- Insulation thermal insulation and thermoreflective for inside and outside buildings, for application on any building material except PP materials;
- Prevents the transfer of thermal energy, prevents walls from freezing,
- Easy application, thanks to the possibility of applying the coating manually behind using a brush, how and mechanically by spraying. Allows this for the insulation of complex elements and shapes such as facades with details architectural, installations technical, e.t.c.,
- Short labor cost, in compared to traditional insulation, speed of work;
- Little density coatings, no burdens additionally isolated construction,
- Uniform and uninterrupted structure, which eliminates bridges thermal iprovides insulating parameters of the same values on the entire applied surface,
- Fully washable, resistant to dirt and chemicals (C4 and C5),
- Saving places thanks thin layer insulation
- Protection against water vapor condensation
- Security before corrosion biological, no mold or fungus development,
- It is a vapor-permeable and ecological coating, friendly to people and the environment.
- Material for insulating monuments and historic buildings, does not damage the substrate.

2. DATA GENERAL

ATF PSC 250T BUILD is a very effective thermal insulation coating when insulating building partitions, preventing condensation surface steamwater. It is stable and has high adhesion to building materials without surface corrosion . It does not create dust during atmospheric changes and is not toxic.
ATF PSC 250T BUILD is used for external and internal walls of building structures industrial and residential. Provides high grip to all known materials, including concrete, plastics and metals. It acts as a partition temporarily waterproof and vapor permeable. It is ecological and safe for health enables his use while wash outside and inside rooms even for allergic people.

ATF PSC 250T BUILD reflects up to (TSR) 92 ± 1% of infrared radiation solar.
High ability to reflect solar radiation and low conductivity create perfect effect insulation. The full range of light energy reflection is from red through orange, yellow, green, blue and purple. The coating is white in color but is available on request many different shades of colors. The coating can be dyed directly in any color according to the RAL system on the construction site or in the mass during production. Due to the reflection function, they are especially recommended pastel shades. After putting on creates pleasant matte surface similar to plaster.

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3. APPLICATION

ATF PSC 250T BUILD for external and internal use in construction must be applied on a previously prepared ATF PSC BASIC B primer.
ATF PSC 250T BUILD coating can be painted on mineral substrates: cement-lime plasters, cement plasters, concrete, plaster, clinker, etc. Energy-saving and flexible coating for insulation andsealing. It is non-toxic, environmentally friendly and creates a membrane that covers microcracks. It is fully washable, resistant to dirt and chemicals. Suitable for use in various climatic conditions, it is vapor permeable. The coating is excellent corrosion resistance biological, does not cause the development of fungi and molds and eliminates water vapor condensation.
The coating is also perfect for use in buildings protected by the conservator of monuments because the 1 mm thick insulation layer perfectly reflects the pattern of the facade surface. Moreover, it is a water-soluble material based on acrylic dispersion that does not harm plasters and surfaces of historic buildings.

4. DATA TECHNICAL

CLASSIFICATION ACCORDING TO PN-EN 1062-1: 2005

Term		
Term According to chemical character substancesfilm-forming	**Water dispersion resin acrylic**	
Term That no matter on state dissolution	**Water-soluble**	
Classification		
Gloss 85° ≤ 10 (Mat) according to PN-EN ISO 2813:2014	**G 3**	**0.0**
Thickness coatings > 50 ≤ 100	**E 2**	**44**
Size seeds. (Minor). Marked according to PN-ENISO 1524:2012 (EN 21524) on the sieve is: up to 100 µm	**S 1**	**0.0**
Factor penetration couples water according to PN-EN ISO 7783:2012 (Medium) ≤ 150 > 15 [g/m ^{2} d]	**V 2**	**62 ± 8**
Diffusion equivalent of air layer thickness according to PN-EN ISO 7783:2012 Sd [m]	**0.35**	
Water permeability (little) ≤ 0.1 [kg/m ^{2} h $^{0.5}$]	**W 3**	**0.04 ± 0.01**
Covering lynx	**No investigated**	
Permeability dioxide coal	**no investigated**	

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5. Designation code

PN-EN 1062-1	**G_3**	**E_2**	**S_1**	**V_2**	**W_3**	**-**	**-**

Classification according to PN-EN 1504-2:2006

Term and classification	
Absorption water IN [kg/m ^{2} H $^{0.5}$] according to PN-EN 1062-3:2008	W<0.1
Resistance per impact [Nm] according to PN-EN ISO 6272-2:2011	Class I ≥ 4
Load at failure, [N] according to PN-EN 1542:2000Adhesion [n/mm ^{2}] ≥0.8 according to PN-EN 1542:2000 Type destruction according to PN-EN 1542:2000	1460 0.8±0.01 AND
Resistance on abrasion (load 250g/quantity ticks 500)[mg] according to PN-EN ISO 5470-1:2017-02, Mass loss in [mg]	0.093 ± 0.07
Improvement immunity on abrasion (load 1000 g/quantity cycles 1000) [%], according to PN-EN ISO 5470-1:2017-02	≥30

Parameters supplementary

No	**Parameter**	**Method tests**	**Value declared**
1	Test SBI In scope reaction on fire	PN-EN 13501-1+A1:2010	B-s1, d 0
2	Classification In scope reaction on fire - flame extent above150 mm above the point applying the flame w time 60 p - occurrence burning droplets/solid waste causing inflammation filter paper	PN-EN ISO 13832:2010 - Fs≤ 150 mm within 60 p PN-EN ISO 11925-2:2010 - lack burning drops /waste solids causing inflammationmaterial filtration	- compatibility - compatibility
3	Conduction coefficientwarm [W/m*K] lambda	PN-EN 1745:2004; PN-EN 1745:2004/Apl:2006	0.000121
4	Density volumetric [g/ cm3]		0.54 ± 0.05
5	Efficiency [kg/m ^{2}] at thickness shell 1.0 mm	depending on how application	about 0.95
6	Mass per unit area [kg/m ^{2}]	depending on how application	approximately 0.57
7	pH factor		8-9

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6. INSULATION

ATF PSC 250T BUILD has a reflectivity (TSR) of 92 ± 1% and conductivity thermal lambda coefficient 0.000121 [W/m*K]. Conventional paints insulating they absorb light solar, and their effect is only to slow down heat transfer. In the ATF coating of the PSC 250T BUILD, most of the sunlight remains reflected from it surface, and remaining energy Is absorbed By imposed coating or discharged back down atmosphere In characters infrared radiation. This action applies to both warm and cold climates.

7. PREPARATION SUBSTRATES

The substrate must be previously cleaned of dirt, dust and old coatings. It is necessary to clean the surface of loose fractions enough carefully so that it does not bond together with the applied coating. Prepared substrate must be dry (no condensation). Remove oily and greasy dirtusing an appropriate preparation. It is recommended to matt smooth surfaces mechanically. After processing mechanical, belongs carry out thorough cleaningremove dust from the surface using a blower, brush or wash it with water and wait until completedry. For leveling rough surfaces and removing loose parts, can use washcloths pressure. Wait until the substrate is completely dry.

NOTE: before applying the ATF PSC 250T BUILD coating, always prime the surface with ATF PSC BASIC B primer (1 or 2 layers).

IN case surface undergoing renovation (historic buildings, applying insulation on top of it) recommends myself detailed and individual assessmentstate substrates and:

- to remove old coatings and any impermanent elements,
- wash off greasy stains and any raids,
- In case difficult and durable dirt apply sanding,
- In case of severe fungal infection apply appropriate preparations fungicides
- remove any unevenness using plaster or cement plasters cement and limestone smoothes putties and wait until dry.

8. COLORS AND DYEING

Standard coating color it's white . Can be dyed in any color according to the RAL color chartusing 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 250 T BUILD coating.

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

9. WEAR MATERIAL PSC BUILD on 1 m2 –

(one total layer on all surfaces about perfect horizontal plane)
At a thickness of 1.0 mm: average 1.2 liters on 1 m2 –
At a thickness of 1.5 mm thick : average 1.8 liters on 1 m2
The above amounts are for spray application. For flat facades, taking into account losses during spraying, the average coating consumption is assumed to be 1.2 liters/sq m.

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The average material consumption for 2 layers of ATF PSC 250T BUILD for an average system thickness of approximately 1.3 mm composed of: ATF PSC BASIC B+ ATF PSC BULD + ATF PSC OUTSIDE is, depending on the absorbency, architectural irregularities and surface roughness, from 0.9 liters (flat surface) up to 1.4 liters per m^2. Correct application of the primer with ATF PSC BASIC B coating ensures better application of the ATF PSC 250T BUILD coating and reduced material consumption.

10. COATING DRYING TIME (SEASONING)

Time Before imposition second ATF PSC BUILD layer should be waited for 6 to 12 hours dependence From temperature and relative humidity (see manufacturer's instructions - drying table) until the coating is COMPLETELY dry throughout its entire thickness. This may take up to 48 hours on facades in humid conditions.
Temperature surroundings and painted surface she should to be between +5 °C and +30 °C relative humidity there should be air lower than 80%.
In the case of external application of ATF PSC BUILD, work must be stopped in case of rain or humid air (e.g. fog).
Warning: In any case, the application of the next layer cannot be implemented on wet surface of the previous layer!

11. MIXING

ATF PSC 250T BUILD can be diluted with water before use. Dilute Just quantity used product. Amount of water used down dilution no she should exceed a maximum of 0.3l on packaging 18 liters of coating. The mixture of water and coating is mixed with a small speed (down 150 revolutions on minute) by 3-5 minutes in mixers mechanical and 5-7 minutes by manual mixing. Specific information are found In instructions producer's + instruction application.
During long-term storage, the coating in the packaging is subject to sedimentation and may deteriorate stratify. This is a natural symptom and is done using a slow speed mixer (drill with mixer) mix the coating at maximum speed mixing up to 150 rpm until a uniform consistency is achieved. By higher speeds may result in fragmentation and damage of the microspheres, and thus lead to significant loss properties thermal insulation material.
Approximate mixing time - mechanical mixer 1-5 minutes, mixing by hand 5-7 minutes. While It is advisable to stir every 10-15 minutes during work material.

12. EQUIPMENT APPLICATION

Recommended equipment: brush or spray device. The brush can be used on very small ones surfaces or when replacing material losses (repairing mechanical damage). While application product behind help brush belongs apply three layers cross, To to ensure appropriate layer thickness and protection.

We recommend spray application by using Graco RTX 5500 to apply textured surfaces, a for smooth surfaces we recommend GRACO MARK V5 - V7 (see specifications producer's) or similar. More information can be found in the device manufacturer's instructions and the application instructions.

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13. APPLICATION COATINGS

Before using the material, read the instructions. Recommended myself overlay coatings aggregate hydrodynamic painting after one layerwith a thickness of up to 0.5 mm. Applying the coating in one layer thicker than 0.5 mm is allowed prohibited because delamination of the coating may occur. Total drying time one layer with a thickness of 0.5 mm lasts from 6 to 48 hours depending on air temperature and humidity. Another layer can be applied after the previous one has dried. The ambient temperature during drying must be at least +5°C.

When using the unit, follow the recommendations producer's devices. For small areas or difficult to access It is recommended to apply the coating with a long-bristle brush using a cross system. On larger surfaces, recommends myself overlay coatings aggregate, under maximum pressure From 80 down 120 bar. Not all devices are suitable for applying a ATF PSC coating. We recommend a manufacturer of hydrodynamic units that ensure proper operation application parameters are GRACO Mark VII devices (or similar).

NOTE: do not work with the w coating rainy weather.
If necessary the coating can be diluted with water in the amount given in point 11. The amount of water depends on the temperature of the substrate on which it is applied imposes myself coating and too From temperature surroundings. Maximum you can to add down3% of the coating weight.
Rinse tools with water after use.

14. PACKAGING

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

15. TRANSPORT WEIGHT

Net weight per liter: 0.52±0.05kg
Plastic bucket 18 liters, weight: 9.6 kg
Option: Plastic bucket 10 liters weight: 5.2 kg

16. STORAGE

Should be stored indoors, away from heat sources.
In original and tightly closed packaging, at temperatures from +5°C to +30°C.
Up to 4 layers of packaging can be stacked on top of each other. The product is water-soluble and is destroyed at negative temperatures during storage or transport.

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17. SECURITY

Product no is product dangerous, given below _ supplementary information is provided only recommendations in the event of emergencies.

Keep out of reach of children, do not eat, drink or drink while using the product burn. Use personal protective equipment when working. Recommended protective clothing, gloves and glasses protective. By pollution eyes belongs for a few minutescarefully wash eats water, remove contact lenses and continue rinsing.
If eye irritation persists, seek medical advice/treatment treatment. If you ingest the coating, rinse your mouth immediately and seek medical advice/implement treatment. Wash contaminated skin with water soap, spread cream regenerating. If necessary Is help medicalthen the packaging or label of the product should be presented to the doctor. The shell is not classified as an environmentally hazardous product and is non-flammable in its state liquid.

18. CONTENTS VOLATILE SUBSTANCES ORGANIC PN-EN ISO 11890-1:2008 Determination of the content of volatile organic compounds (VOC) less than 10 g / l

19. PERIOD STORAGE IN PACKAGING

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

20. FLASH -POINT

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

21. CODE PRODUCT

ATF PSC 250T BUILD Lot production: see label on package
Packaging 18 liters EAN 128 code no. 7421351511848
OPTION: 10 liter packaging EAN 128 code no. 7421351511855

21 WARRANTY / Durability and protection

2 years / 25 years

22. EXCLUSIVE EXCHANGE

Your sole remedy for goods that do not conform to the warranty is replacement product.
The manufacturer is not responsible for any damages, including (between other) remuneration costs.
ATTENTION: Further information you can find in instructions

23. DOCUMENTS FORMAL AND LEGAL

PN-EN 1062-1: 2005 Paints and varnishes. Paint products and coating systems.
PN-EN 15824:2010 Requirements regarding plasters external and internal on binders organic.
PN-EN 1504-2:2006 Products and systems down protection and repair construction concrete. Definitions, requirements, quality control and conformity assessment. Part 2: Systems concrete surface protection.
CE declaration of performance