



**PELESEAL PLUS+®**

**Elastomeric waterproofing Roof Compound reinforced with microfibres and Cool Paint technology**



**Description**

Premium quality elastomeric waterproofing roof compound reinforced with microfibers and Cool Paint technology. With a High Reflectance Index, SRI 107, it is considered as Cool Paint. Due to its heat-reflective action, it saves energy, as it prevents high temperatures forming on the roof and at the same time penetrating internally during the hot summer months. It forms a continuous, flexible, and waterproof membrane without joints. It is diluted with water, therefore there is no risk of ignition during application. It can be easily applied, and it exhibits high adhesion to concrete substrates.

**Technical Characteristics**

Vehicle type	: Styrene / Acrylic copolymer
Specific gravity	: 1.06 ± 0.02 Kg/L
Volume solids	: 48 ± 1 %
Weight solids	: 54 ± 1 %
Viscosity	: 102 ± 3 KU's
Dilution for prime coat	: Up to 25% by volume with water
Dilution for build-up coats	: Up to 5% by volume with water
Drying time at 25 °C and relative humidity 50 %	: Touch dry: 1 – 2 hours Recoat: 24 hours depending on weather conditions
Flash point	: Non-flammable
<b>EU limit value for this product (cat. A/i): 140g/l (2010). This product contains max 10g/l VOC</b>	

**PERFORMANCE TABLE BASED ON EUROPEAN & INTERNATIONAL STANDARDS**

	TEST METHOD	PERFORMANCE
<b>Tensile strength</b> (at temperature 23 ± 2 °C)	DIN 53504	2.4 ± 0.1 MPa
<b>Elongation at break</b> (at temperature 23 ± 2 °C)	DIN 53504	446 ± 37 %
<b>Liquid water permeability</b> (at 1.5 m <sup>2</sup> /L–2.0 m <sup>2</sup> /L)	DIN EN ISO 1062-3	0.028 Kg/(m <sup>2</sup> h <sup>0.5</sup> ) Class. W3 (low)
<b>Water vapour permeability</b>	DIN EN ISO 7783	3.87 g/m <sup>2</sup> d, at 2000 µm
<b>Bonding strength</b> (on concrete surface at 1.5 m <sup>2</sup> /L – 2.0 m <sup>2</sup> /L)	DIN 1542	3.1 ± 0.9 MPa
<b>Solar Reflectance, SR*</b>	ASTM E903-12 & ASTM G159-98	88 %
<b>Solar Reflectance in visible spectrum, SRvis*</b>	ASTM E903-12 & ASTM G159-98	89 %
<b>Solar Reflectance in IR area, SRnir*</b>	ASTM E903-12 & ASTM G159-98	93 %
<b>Solar Reflectance Index, SRI*</b>	ASTM E1980-01	107

	TEST METHOD	PERFORMANCE
<b>Artificial Ageing</b> Exposure to fluorescent UV lamps <ul style="list-style-type: none"> <li>• Method A: Artificial weathering</li> <li>• Cycle No.1: 4 hours dry at 60 °C / 4 hours condensation at 50°C</li> <li>• Type of lamp: UVA – 340</li> <li>• Irradiation: 0.83 W / m<sup>2</sup> / nm at 340 nm</li> </ul> Substrate: Fibre-reinforced cement panels at 1.5 m <sup>2</sup> /L–2.0 m <sup>2</sup> /L for 1000 hours	DIN EN 1062-11	No blistering No cracking No flaking No chalking

\*Value certified by National and Kapodistrian University of Athens

Instructions  
for Use

**SUBSTRATE PREPARATION**

Roof substrate must be well cured, dry, and solid, free from dust, dirt, oils and generally anything that may prevent good adhesion of **PELESEAL PLUS+**<sup>®</sup>. Efflorescence, fungi, or other forms of micro-organisms should be thoroughly cleaned before application. For surfaces with microcracks, no pre-treatment is required, while larger cracks must be repaired using epoxy resins. Gaps and pits on the roof substrate, exceeding 5 mm in thickness, are repaired with high performance, fibre-reinforced cementitious repair mortar RM40, while pits with smaller thicknesses are smoothed with fine, high performance, fibre-reinforced cementitious mortar RM40 FINE and then allowed to cure before the application of **PELESEAL PLUS+**<sup>®</sup>.

**APPLICATION**

**Thinning/Cleaning:** Tap water.

**Application tools:** Paint roller, brush.

**Application conditions:** **PELESEAL PLUS+**<sup>®</sup> can be applied at substrate temperatures between +5°C up to +35°C and the relative humidity should not exceed 80%.

All equipment and containers should be clean, free of dust, residues of previous mixtures and/or other building materials, etc. to not adversely affect the properties of **PELESEAL PLUS+**<sup>®</sup>. Stir with a low-speed stirrer until a homogeneous mixture is achieved. **Stir well before and during use.**

For priming new concrete surfaces, **PELESEAL PLUS+**<sup>®</sup> is applied in one coat as a primer diluted with water (up to 25% by volume) and at least 2 or more additional uniform coats in a crosswise direction (up to 5% by volume) at a thickness of 0.5 mm each. On solid substrates without cracks, **PELESEAL PLUS+**<sup>®</sup> can be applied with or without reinforcing fabric. On roof slabs with microcracks, after priming, during the application of the next coat of **PELESEAL PLUS+**<sup>®</sup>, and while it is still fresh, it is necessary to embed a 60 g/m<sup>2</sup> polyester or polypropylene fabric as a reinforcement. During the application of the reinforcing fabric, the joints should be overlapped by at least 10 cm. Subsequently, the next layers are applied with a waiting time of 24 hours between each coat. Reinforcing fabric, should also be used, if the roof slab is subjected to regular foot traffic. If **PELESEAL PLUS+**<sup>®</sup> is applied in a consumption greater than 1 L/m<sup>2</sup>, the estimated life span of the membrane is extended as indicated in Table 1.

TABLE 1

Total Consumption	Coats	Dry Film Thickness	Estimated Life Span
1.0 L/m <sup>2</sup>	Primer + 2 coats	0.50 mm	4 – 5 years
1.5 L/m <sup>2</sup>	Primer + 3 coats	0.75 mm	5 – 7 years
2.0 L/m <sup>2</sup>	Primer + 4 coats	1.00 mm	7 – 9 years
2.5 L/m <sup>2</sup>	Primer + 5 coats Combined with reinforcing fabric	1.25 mm	9 – 10 years

### CLEANING OF TOOLS

Tools and equipment that have been used, should be thoroughly cleaned, immediately after using, with plenty of warm water and soap, while **PELESEAL PLUS+**® is still fresh.

### REMARKS / LIMITATIONS

- Do not use any diluent other than clean, tap water.
- Always mix at low speed to avoid entrapping air bubbles in the product.
- Apply **PELESEAL PLUS+**® on surfaces with proper slopes without pits.
- Do not apply at temperatures below +5 °C or above +35 °C.
- Do not apply when humidity exceeds or is expected to exceed 80% in the next 12 hours or when rain is expected.
- Do not apply on wet or damp substrate or substrate with rising damp.
- Do not apply in thickness greater than 0.5 mm per coat.
- Do not use **PELESEAL PLUS+**® on new bituminous membranes unless they have completely oxidized (at least 6 months after the application of the bitumen membrane, including the 3 summer months).
- Do not store **PELESEAL PLUS+**® to which water has already been added.

**PACKING:** 1L, 5L, 10L, 15L.

**COLOURS:** White

**STORAGE:** **PELESEAL PLUS+**®, can be stored in its original, unopened packaging in a covered area, away from extreme temperatures and without direct exposure to sunlight.

### Health and Safety Measures

- Keep out of reach of children.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed, seek medical advice immediately and show the container or label.
- It contains a biocidal product. It contains 5-Chloro -2-methyl-4-isothiazolin-3-one (EC no. 247-500-7) and 2-methyl-2H-isothiazol-3-one (EC no. 220-239-6) (3:1). May produce an allergic reaction.
- Apply only in well ventilated areas.
- Do not empty into drains.
- Avoid release to the environment.
- For more information, please refer to Safety Data Sheet.

### WASTE MANAGEMENT

*Do not empty surplus paint into drains, and do not dispose together with household refuse. Advice regarding disposal and collection should be sought from the local authorities.*

**Note:** *The information supplied in our literature or given by our employees, agents or distributors concerning the use of our products is based upon extensive experience and given in good faith in order to help you. We guarantee the consistent high quality of our products; however, as we have no control over site conditions of the executions of work, we cannot accept any liability for any loss or damage, which may arise as a result thereof.*