

## Sky (4.0mm) Armor (Double)

Since we have created a new line of Electra extra light materials, we decided to change the concept of the Sky line.

We offer you a new version of Pallium E. The material is based on a new mastic with a super high MLF. Even with less thickness (2.5mm) material has many advantages

- high damping efficiency ( >0.44 )
  - high adhesion ( >11.0 N/cm )
  - extremely wide temperature operating range ( -40C...+60C )
  - has absolutely no smell of bitumen
  - does not dirty hands during installation
  - materials use semi-annealed semi-hard foil 100mKm
  - new type of foil printing that does not wear off when rolled
- We believe you will be pleasantly surprised by the unparalleled effectiveness

Application area: doors, roof, boot lid This is a radically new product to the market. Based on our research and testing we have found out that a traditional increase in the thickness of the composite layer is less effective than sticking two layers together. What we have done with this material is exactly that – a sandwich consisting of a self – adhesive glue layer composite with aluminium foil followed by another layer of composite and aluminium.

This product is using our advanced super light butyl polymer that is 38% lighter than traditional materials and a tempered aluminium foil that produces higher damping coefficient making this an ultimate product.



## MATERIAL DATA SHEET

Name of index	Value	Testing method
Material Thickness (mm)	2.5	GOST 17073-71
Material Thickness (mm)	4+-5%	GOST 17073-71
Foil (Outer) Thickness (µm)	100+-10%	GOST 17073-71
Foil (Inner) Thickness (µm)	60+-10%	
Mass per m <sup>2</sup> (kg)	5.1+-10%	GOST 17073-71
Mechanical Loss Factor on metal plate with thickness 1mm at temperature less than +20°C ( )	> 0.44	DIN EN ISO 6721- 3:1994 (method-A)
Mechanical Loss Factor on metal plate with thickness 1mm at temperature less than +20°C ( )	>0.6	ISO 3795-76
Fire risk, burning rate (mm/min)	Non-flammable, <100	ISO 3795-76
Durability of connection between the material and the metal surface during flaking-off (N/cm)	>6	ISO 813:2010
Durability of connection between the material and the metal surface during flaking-off (N/cm)	>11.0	ISO 813:2010
Operating Temp. Range (°C)	-40 to +90	
Max. Temp. Intermittent (°C)	+150	

Name of index	Value	Testing method
Package weight (kg,avg)	10.04 +-10%	
Package volume (m <sup>3</sup> ,avg)	0.0130 +-10%	

## COMPOSITION

A five-layered material:

1. Self adhesive glue layer for installation, protected with antiadhesive paper
2. Our space age formula composite butyl polymer
3. Tempered aluminium foil
4. Our space age formula composite butyl polymer
5. Tempered aluminium foil

## APPLICATION

This material should be installed on clean, dry surfaces, including on complex surfaces. (WARNING: Not to be installed on corroded metal surfaces!). First clean the surface from dirt, it is recommended to use water with neutral detergents, which do not contain organic solvents and alkali. After the surface dries, degrease it with white spirit, gasoline or other solvents and allow it to dry completely.

Peel off the anti-adhesive paper and thoroughly press against the surface, avoiding the formation of air bubbles between the surface and the material. Roll the material with a roller, pressing it through so that there is no air trapped between the material and the surface (use the "from the center to the edge" technique).

It is best to apply the material in working environments with temperatures between +18 and +35°C. Recommended area of installation: Double (Armor) - Boot lid, wheel arches, firewall and floor.

## STORAGE

Material should be stored inside at a temperature not higher than +40°C in horizontal position on a flat surface at a distance not less than 1 m from any heating systems; avoid any wet conditions and contacts with oils and direct sun.

Do not stack the materials more than 1.2m in height.

## PACKING TYPE / AREA

15sh 50x27.5 / 2.06 m<sup>2</sup>

IATF 16949:2016  
ISO 14001:2015

