

Approved on 04.06.2016

## **PLASTFOIL® ART**

Polymeric PVC membrane for waterproofing of roofs

PRODUCT DESCRIPTION	PRODUCT DESCRIPTION				
	polyvinylchloride (PVC) o exposure are integrated a required elasticity	PLASTFOIL® ART— is a polymeric waterproofing membrane based on plasticized polyvinylchloride (PVC) of high quality, unreinforced. Special additives ensuring resistance to UV exposure are integrated in the upper layer. Sufficient number of plasticizers guarantees a required elasticity and flexural properties of rolls for comfort installation and operation in cold ambient conditions.			
APPLICATION					
	<b>PLASTFOIL® ART</b> is intended for conjugating with different roof structures such as pipes, roof outlets, masts and for making strengthening elements. It is also applied for ballasted and inverted roofs.				
CHARACTERISTICS/A	DVANTAGES				
Features	<ul> <li>Outstanding resistance to weathering, including permanent UV irradiation</li> <li>High resistance to aging</li> <li>High resistance to mechanical influences</li> <li>High resistance to hailstones</li> <li>High resistance under tension</li> <li>Excellent flexibility in cold temperatures</li> <li>High vapor permeability</li> <li>Outstanding weldability</li> <li>Recyclable, does not pollute the environment</li> <li>Fire performances are adapted to the European and Russian Requirements to fire safety</li> </ul>				
Approval/standards	• Tech. specifications 2 Technical regulations				
Standard sizes of rolls	Thickness, mm	Width, m	Length, m	Weight, kg/m²	
	1,5 (-5% / +10 %)	2,0 (-0,5% / +1,0%)	10,0 (-0% / +1,0 %)	2,0 (-5% / +10%)	



TECHNICAL DATA			
Product declaration	Tech. specifications 23.99.12.110-01	2-54349294-2016 and EN 13956	
Visible defects	none	GOST R EN 1850-2-2011	
Straightness, not more than, mm on 10m	30	EN 1848-2	
Flatness, not more than, mm	10	EN 1848-2	
Elongation at maximum load conditions, %,			
not less than			
- longitudinal	15	GOST 31899-2011	
- transversal	15		
Elongation on peak load conditions, %, not			
less than		COST 24,000, 2044	
-longitudinal	250	GOST 31899-2011	
-transversal	250		
Tear resistance (roofing membranes), N, not	450	EN 42240.2	
less than	150	EN 12310-2	
Full collapsibility at low temperatures, °C,	45	COST EN 405 5 3043	
not more than	-45	GOST EN 495-5-2012	
Radius of curvature with semidiameter of 5			
mm, there should be no cracks at	-55	GOST 2678-94	
temperature, °C, not more than			
Water absorption, % by weight, not more	0.1	COST 2679 04	
than	0,1	GOST 2678-94	
Weld strength at tearing, N/50mm, not less	300	EN 12316-2	
than	300	EN 12310-2	
Weld strength at break,	600	EN 12317-2	
N/50mm, not less than	000	LIN 12317-2	
Water resistance (2 hours at 0,2 Mpa)	Impervious to water	GOST R EN 1928 (B)	
Resistance to hail, not less than m/s	25	EN 13583	
Resistance to dynamic burst (impact			
resistance) at low temperatures, there	-30	Company methods	
should be no cracks, °C, not more than			
Resistance to dynamic burst (impact			
resistance) - on a solid ground (in brackets	700 (1000*)	GOST 31897-2011	
on soft ground), mm, not less than			
Resistance to static pressing, kg, not less	20	0007 511 40700 0044	
than	20	GOST EN 12730-2011	
	Broof(t1)	EN 13501 5	
Resistance to fire	B <sub>ROOF</sub> (t2)	EN 13501-5	
	B <sub>ROOF</sub> (t3)	TS EN 1187	
Fire reaction	Class E	EN 13501-1	
Aging under the influence of artificial		GOST 32317-2012	
climatic factors (UV exposure, not less than	responds	(EN 1297)	
8000 hours)		(LIV 123/)	
Linear changes when heated 6h at 80°C, %,			
not more than	1,5	GOST R EN 1107-2-2011	
Fire grading:			
Flammability group	4	Technical regulations №123-	
Flame spreading	3	FL	
Inflammability	3		



## **RELATED MATERIALS** To ensure a high quality and durability of roof waterproofing it is recommended to apply the following constituent parts: Formable elements and joints Rainwater funnels Laminated tin Mechanical fastener Compression and edging aluminium planks Membrane cleaner **APPLICATION DETAILS** Substrate quality The substrate must be uniform, smooth and free of any sharp protrusions or burrs according to Regulation 17.133330.2011 (5.6) Metal surface should be degreased with cleaner before the adhesive is applied. Compatibility Not compatible with materials containing bitumen, tallow, tar, oils, solvents. In order to prevent a direct contact to polymers of other groups, such as: foamed polystyrene, polyurethane, polyisocyanurate, phenol-containing foams it is recommended to apply a separation geotextile or glass-fiber mat layer. Application method / tools Installation procedure According to the valid installation instructions for mechanically fastened roof systems using PLASTFOIL PVC-membrane. Fixing method: Loosely laid and mechanically fastened. The roof waterproofing sheet is installed by loose laying and mechanical fastening in seam overlaps or independent from overlaps. An additional mechanical fastening of the membrane around the roof perimeter is obligatory. Technical department of the "Penoplex" company perform calculation on number of Primary calculation can be made using a special program on the company website www.plastfoil.ru. Welding method: Overlap seams are welded by electric hot welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with controlled hot air temperature capability of minimum +600°C. Recommended type of equipment: Leister Triac, Dohle RION – for manual welding or some other similar types. Dohle LarOn, Leister Varimat (220W или 380W) – for automatic welding. Welding parameters including temperature, machine speed, air flow, pressure and machine settings must be evaluated, adapted and checked on site according to type of equipment and the climatic situation prior to welding. The effective width of welded overlaps should be equal to 20 mm - for manual welding, and 40 mm - for automatic welding. Notes on application / Installation works of the PVC-membrane must be carried out in strict adherence to the Limitations guidelines on application a polymeric PLASTFOIL® membrane on the roofs. Polymeric membrane may be applied in any climatic zones; herewith installation of the PVC-membrane should be performed at an ambient air temperature of

Application of chemical constituent parts such as: contact adhesive/membrane cleaner is possible at an ambient air temperature not lower than +5°C. Please refer to the technical

-20°C to +50°C.

information on this product.



PROTECTIVE MEASURES				
	Fresh air ventilation must be ensured when working (welding) in closed rooms. Local safety regulations must be observed.			
TRANSPORTATION CLASS				
	The product is not classified as hazardous good for transport.			
PACKAGING				
	Packing unit: 30 rolls			
	Roll weight: 42,8 kg			
STORAGE				
	Rolls must be stored in horizontal position on pallets in original package protected from direct sunlight, rain, snow. Product does not expire during correct storage.			
DISPOSAL				
	The material is recyclable. Disposal must be performed according to the local regulations.  Please contact your local representative office for more information.			