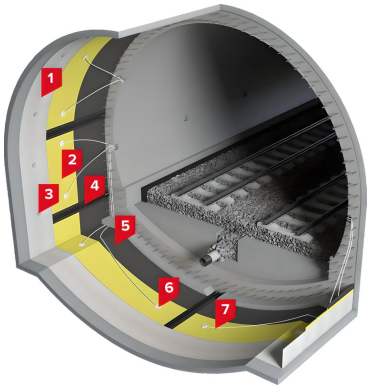
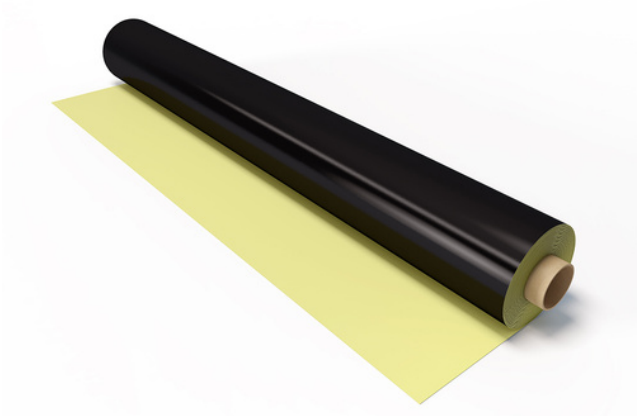
PC-Vase® PV

Non-reinforced PVC membrane for waterproofing of tunnels, foundations, underground parts of buildings and structures

PC-Vase® PV is a non-reinforced PVC membrane, that is used for waterproofing of tunnels, foundations, and underground parts of buildings and structures. The material is produced by co-extrusion on a base of premium-quality plasticized polyvinyl chloride (PVC-P). A yellow signal layer on the top surface of the material allows for detecting waterproofing layer damage promptly and easily. The advantages of the material are durability, high strength and elasticity, resistance to mechanical impact, and high chemical stability.





PERFORMANCE

The waterproofing PVC membrane is loose-laid. On the walls and tunnel arches, the material is fixed mechanically with PVC rondels. Overlap seams are welded by hot air welding equipment, such as manual hot air welding machines and pressure rollers or automatic hot air welding machines with temperature control. Contact with all materials containing bitumen or solvents should be avoided. Direct contact with polymeric materials made of polystyrene (EPS, XPS) is not allowed.

STORAGE

Rolls of synthetic membranes are delivered on pallets. Every roll is packed in the additional individual pack. Rolls should be stored lying down on pallets fully protected from moisture with clean canvas tarpaulins. Keep a minimum distance of 1 m from any source of heat. Shelf life if all storage requirements are met: 18 months from the date of production.

PRODUCTS PROPERTIES

Physical Properties	Typical Value	Test method
Thickness, mm	1.5, 2.0 (-5/+10%)	EN 1849-2
Mass per unit area, kg/m^2	2.0, 2.7	EN 1849-2
Length × width, m	20 × 2.05	EN 1848-2
Tensile strength L / T, MPa	≥16 / ≥15	EN 12311-2
Elongation, %	≥320	EN 12311-2
Tear resistance, N	≥150	EN 12310-2
Resistance to static load, kg	≥20	EN 12730 B
Resistance to impact on rigid / soft base, mm	≥700 / ≥1000 (1.5 mm) ≥1400 / ≥1800 (2.0 mm)	EN 12691
Peel resistance of joints, N/50 mm	≥300	EN 12316-2
Shear resistance of joints, N/50 mm	≥600	EN 12317-2
Foldability at low temperature, °C	≤-30	EN 495-5
Watertightness during 24 h at a pressure of 60 kPa	Pass	EN 1928-2 B

ISO 9001 CERTIFIED

PC-WC GLOBAL FZ-LLC

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