RENOLIT ALKORGEO

Hydraulic structures

RENOLIT ALKORPLAN 35038

Compatible with bitumen

Non uv

→ PRODUCT

- Non-reinforced geomembrane, black, made of flexible polyvinyl chloride (PVC-P), designed for waterproofing of:
  - Reservoirs for retention of hydrocarbons after an accident.
  - Underground tunnels and works in contact with contaminated soil (hydrocarbures/bitumens).
  - Structures underneath petrol stations.
- For the direct and permanent storage of hidrocarbons and hydrocarbon waste, please consult our Engineering Department.

→ CHARACTERISTICS

- Manufactured in ISO 9001 and ISO 14001 certified plant.
- Mechanical properties in accordance with EN 13967.
- CE marking.
- Resistant to swelling, rotting and ageing.
- Very high level of water tightness, even under permanent deformation.
- High capacity for adaptation to irregularities or deformation of support due to its high deformability and weld strength.
- High resistance to puncturing.
- Root resistance in accordance with EN 14416.
- Bitumen, oil and tar resistant in accordance with DIN 16937.

→ INSTALLATION

- Hot air or hot wedge welding achieves correct assembly of the geomembrane. The weld ability and the quality of the welding done on site can be influenced by atmospheric conditions (temperature, humidity of the air) and also by the state of surface of the geomembrane (clean and dry) and must be adapted accordingly.
- An anti-puncturing geotextile or a composite (protective membrane with laminated fleece) should be placed onto the support of the waterproofing.
- In case the geomembrane is covered with sand, gravel or concrete a geotextile or a protection membrane of non reinforced PVC-P RENOLIT ALKORPLAN 35020 (protection against dynamic puncturing) should be placed in between.

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→ CHARACTERISTICS	NORMS	UNITS	SPECIFICATIONS		
Thickness	EN 1849-2	mm	1.2 -5+10%	1.5 -5+10%	2.0 -5+10%
Water tightness to liquid water	EN 1928 (B)			Fulfilled	
Resistance to static loading	EN 12730 (B)	Kg		≥ 20	
Tensile strength	EN 12311-2	N/mm²		≥ 15	
Elongation at break	EN 12311-2	%		≥ 250	
Durability of water tightness against ageing	EN 1296				
	EN 1928			Fulfilled	
Durability of water tightness against chemicals	EN 1847				
	EN 1928			Fulfilled	
Resistance to tear (Nail Shank)	EN 12310-2	N		≥ 300	
Resistance to impact	EN 12691 (A)	mm		≥ 750	
Bitumen compatibility	EN 1548				
	EN 1928			Fulfilled	
Joint strength	EN 12317-2	N/50mm		≥ 600	
Water vapor transmission	EN 1931			15500 +-3500	
Reaction to fire	EN 13501-1			Class E	
UV exposure (1000 h)	EN 1297			Fulfilled	
Dimensional stability	EN 1107-2	%		≤ 2	
Fold ability at low temperature	EN 495-5	°C		≤ 20	
Visible defects	EN 1850-2			Fulfilled	

We reserve the right to amend or change specifications as and when required.
We will be pleased to advise current specifications upon request.
Other technical characteristics are available upon request.

→ STORAGE

- Standard packaging: delivery in roll form, 2.05 meter width, on cardboard cores.
- Store in a dry unheated space. Rolls to be parallel and in original packing. Do not stack in cross form or under pressure. The storage area must be of such nature as not to damage the geomembrane.

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RENOLIT
Rely on it.