

## **APP MODIFIED BITUMEN WATERPROOFING MEMBRANE 3mm FIBERGLASS REINFORCED**

### **PRODUCT DESCRIPTION:**

Pro-Struct 1005 is a plastomeric waterproofing membrane manufactured in an advanced continuous calendaring process by saturating and coating a heavy-duty composite carrier with a waterproofing compound made of a special grade of bitumen, which is modified with APP polymers. While the APP polymers enhance the thermal, mechanical and ageing properties of the membrane compound, the mechanical characteristics of Pro-Struct 1005 are established by the carrier made of fiberglass mat, which acts as the reinforcement that provides the membrane with its particular mechanical properties.

The upper surface of Pro-Struct 1005 is covered with an anti-adhesive finish material while the lower face is laminated with a thermo-fusible polyethylene film.

### **USES:**

Pro-Struct 1005 is a multi-purpose membrane for roofing and waterproofing applications subjected to different mechanical stresses and normal weathering conditions, in multi layer systems and can be used as a single layer in specific applications.

Pro-Struct 1005 waterproofing membrane is particularly recommended in single or multi-layer systems for the following applications:

- Roofing works for flat or sloped protected roofs.
- Waterproofing of underground structures.
- Waterproofing of wet areas, mechanical rooms and terraces.

### **MAJOR FEATURES:**

- **Good UV Resistance**
- **Enhanced Resistance to Chemicals**
- **Excellent Mechanical Properties**
- **Enhanced Performance**, under a wide range of temperature fluctuation (from 0°C to 150°C)

### **PACKAGING:**

Roll Size: 10m x 1m

### **SURFACE FINISH:**

The lower surface of Pro-Struct 1005 is laminated with a thermo-fusible polyethylene film while the upper surface is covered with a fine sand finish.

### **SURFACE PREPARATION AND PRIMING:**

Surfaces must be clean, sound and dry. All surfaces must be free from oils and grease and laitance removed from cementitious surfaces. **Pro-Struct 201** is a one-part bituminous solvent-based primer and is ready for use. Application must be done by brush or roller. Primer must be allowed to dry completely prior to overcoating to prevent entrapment of solvents.

### **APPLICATION:**

Pro-Struct 1005 is usually applied by using a propane torch. The substrate surface must be clean, dry, smooth and free from any irregularities. A coat of Pro-Struct 201 Primer will be required prior to the application of the membrane. Pro-Struct 1005 should be applied to the substrate as a fully bonded system. Side laps should be from 8 to 10cm, while end laps should be from 12 to 15cm.

### **STORAGE:**

Pro-Struct 1005 rolls should be kept in an upright position in a flat, properly ventilated and sheltered storage area.

# APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

Properties		Test	Unit	Test Method	Tolerance	Pro-Struct 1005	
Dimensional Properties		Thickness	mm	EN-1849-1	± 5%	3	
		Determination of Width	m	EN-1848-1	± 1%	1	
		Determination of Length	m	EN-1848-1	± 1%	10	
		Straightness (Ortometry)	mm	EN-1848-1	-	± 10	
Compound Properties		Softening Point (R&B)	°C	ASTM D-36	Min	150	
		Compound Elongation	%	UNI 8202/8	± 15%	0	
Membrane Properties	Mechanical Properties	Tensile Strength – Longitudinal	N/50mm	EN-12311-1	± 20%	350	
		Tensile Strength – Transverse	N/50mm	EN-12311-1	± 20%	250	
		Tearing Strength – Longitudinal (nail shank)	N	EN-12310-1	± 30%	125	
		Tearing Strength – Transverse (nail shank)	N	EN-12310-1	± 30%	150	
		Tensile Tear Resistance – Longitudinal	N	ASTM D-5147 D4073	± 30%	450	
		Tensile Tear Resistance – Transverse	N	ASTM D-5147 D4073	± 30%	300	
		Resistance to Static Loading	kg	EN 12730 Method A	Min	7	
		Dynamic Puncturing (impact resistance)	mm	EN 12691 Method B	Min	300	
	Thermal Properties	Flow Resistance at Elevated Temperatures	°C	EN-1110	Min	100	
		Flexibility at Low Temperatures <sup>(1)</sup>	°C	EN-1109	-	-5 to 0	
		Dimensional Stability	%	EN-1107-1	Max	± 0.1	
		Water Impermeability – Watertightness at Low Pressure	60 KPa	EN-1928 Method A	-	Passed	
		Water Impermeability – Watertightness at High Pressure	Kpa	EN-1928 Method B	Min	100	
	Miscellaneous Properties	Water Absorption	%	ASTM D-5147	Max	< 1	
		Vapour Permeability	μ	EN 1931	Min	60000	
		Shear Resistance of Joints – Longitudinal	N/50mm	EN-12317-1	± 20%	350	
		Shear Resistance of Joints – Transverse	N/50mm	EN-12317-1	± 20%	250	
		Thermal Ageing in air (in oven 28 days at 70°C)	-	UNI 8202/26	-	Passed	
		Ageing due to Atmospheric Agents (UV test weathering)	-	ASTM G53 UNI 8202/29	-	Passed	
		Fire Classification – External Fire Performance	Class	EN 13501-5/ENV 1187	-	F Proof	
		Reaction to Fire	Class	EN 13501-1	-	E	
		Adhesion of Granules	%	EN-12039	Max	≤30	
		Adhesion to Concrete (torch applied)	N/50mm	Pelage UEAtc	-	20	
		Resistance to Root Penetration	-	EN 13948	-	NPD	
		Supply Data	Weight	kg/m²	-	-	3 to 6
			Thickness	mm	-	-	2 to 5
			Roll Length	m	-	-	10
			Roll Width	m	-	-	1
Surface Finish – E: Polyethylene Film    S: Sand							
Upper Surface Finish	-		-	-	S		
Lower Surface Finish	-		-	-	E		

The declared average values represent the best performance achieved at the present state of our knowledge. StonCor Africa reserves the possibility to change, without warning, the technical characteristics in order to make the product more responding to the application requirements. The choice of the type of membrane for the kind of use is at the purchaser's discretion.

Tolerances for the above values if not mentioned are according to the UEAtc directives:

1) Exact value depends on thickness of the product

**CAUTION: MAY CONTAIN FLAMMABLE SOLVENTS.** KEEP AWAY FROM SPARKS AND OPEN FLAMES. IN CONFINED AREAS WORKMEN MUST WEAR FRESH AIRLINE RESPIRATORS. HYPERSENSITIVE PERSONS SHOULD WEAR GLOVES OR USE PROTECTIVE CREAM. ALL ELECTRONIC EQUIPMENT AND INSTALLATIONS SHOULD BE MADE AND GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. IN AREAS WHERE EXPLOSION HAZARDS EXIST, WORKMEN SHOULD BE REQUIRED TO USE NON-FERROUS TOOLS AND TO WEAR CONDUCTIVE AND NON-SPARKING SHOES.



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