

### GENERAL DESCRIPTION

AXEL PU ANTIROOT 116WB is a water based, elastomeric, seamless modified polyurethane bituminous waterproofing system which consists of special active ingredient with high performance of root growth control. It is developed for both new and remedial roofing applications. The key element of AXEL PU ANTIROOT 116WB provides long term protection for the construction materials from undesirable root penetration without damaging the plants.

### RECOMMENDED USES

- \* R.C flat roof
- \* Bridges
- \* Balconies
- \* Flower boxes
- \* Plaza decks
- \* Concrete structures
- \* Walkways

### CHARACTERISTICS & ADVANTAGES

- \* Easy handling
- \* No cold joints
- \* No negative influence on the growth of plants
- \* Flexible & elastomeric
- \* Root-resistant
- \* Excellent bonding

### COVERAGE

Approximately 1-2 kg/m<sup>2</sup> depending on substrate conditions. \* Minimum of two coats are recommended.

### COLOURS

Black

### PACKING

20 kg per pail

### STORAGE

Store in a dry, cool and shaded place

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

### SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

## SURFACE PREPARATIONS

Surfaces should be structurally sound, clean and free from loose particles, oil, grease or any other contaminants. Ensure that all concrete bases are cured for at least 28 days. Repair all cracks, unsound concrete or honeycombs with **AXEL EMBED 301R** prior to application of **AXEL PU PROOF 116WB**.

## METHOD OF APPLICATION

- \* Primed the surface with **AXELBIT PRIME 1007** if necessary.
- \* Stir well **AXEL PU ANTIROOT 116WB** before using and applied straight from the container by brush, roller or squeegee.
- \* Apply first coat and allow to dry off completely, then apply second coat in opposite direction. Recoating interval approximately 8-12 hours.
- \* A layer of glass fiber could be applied between first coat and second coat of **AXEL PU ANTIROOT 116WB** for reinforcement to form a high tensile strength membrane.
- \* Protect the coating from rain or getting damage until fully cured. Allow at least 24 hours to set before open for foot traffic.



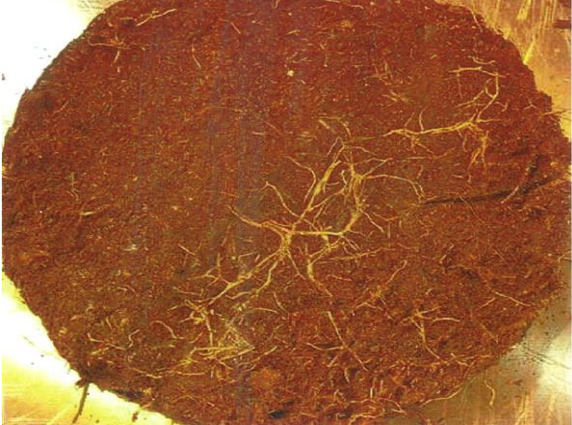



### Notes:

- \* Application temperature min 5 °C – max 35 °C. Low or high temperature will affect material curing rate.

## TECHNICAL SPECIFICATIONS

No. of components	One
Specific gravity	1.35 ± 0.1 kg/litre
Solid content	> 60 %
Viscosity	> 100 KU
Water absorption ratio compared coated and uncoated BS EN 13580:2002	2.5 %
Tensile strength ISO 37:2011	1.9 Mpa
Elongation ISO 37:2011	160 %
Application temperature	5-35°C
Drying time (28°C)	Tack free : 2-4 hours depending on temperature and humidity
Recoating interval (28°C)	8-12 hours
<b>Root resistance test based on CEN/TS 14416 - 8 weeks in conditioned greenhouse :</b>	
No. of plants grow	37
No. of roots growing into specimen without perforating the specimen	0
No. of roots perforating the specimen	0
Observation	PU ANTIROOT 116WB membrane free of root ingress

### OBSERVATION ON PLANT GROWTH ( 8 WEEKS)

Normal membrane	PU Antiroot 116WB membrane
	
Network of roots	
	
View on the top side of membrane	
	
View on the back side of membrane	

**Observations :** Normal membrane displayed a distinctive network of long tap roots with various roots ingressing and perforating the specimens. PU Antiroot 116WB membrane were free of root ingress.

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