TECHNICAL DATA SHEET

TDS_WPBFR0801/b cancels and replaces WPBFR801-14.02

ANTIROCK PR 4.7 mm

ANTI-ROOT BITUMINOUS MEMBRANE FOR UNDER BACKFILL

USE

ANTIROCK PR is used for waterproofing underground structures. It is bonded onto the upper surface of the structure (a cut and cover tunnel for example) and is protected against puncturing by the backfill by a geotextile (GEOLAND), a cementitious geocomposite (GEOLAND TTX), a layer of concrete or asphalt.

The membrane is welded and smoothed onto a substrate prepared with primer: ELASTOCOL 500 TP, GLACIVAP (primer/pore filler), AQUADERE TP (solvent-free primer), REKU P70 (PMMA resin) or REKU P30 (epoxy resin).

This membrane has the same characteristics as ANTIROCK P, but also has an anti-root treatment to meet the requirements of underground structures, to protect it against attack from plants and perforation by roots.

APPLICATION

The welding is performed either manually with a flame, or automatically using machines made by SOPREMA.

If the welding is performed manually, the membrane and the primed substrate are heated alternately.

A 90mm selvedge with no slate chippings ensures easy overlapping.

One or two protective layers of GEOLAND MC geotextile (depending on the requirements, height and nature of the backfill) or GEOLAND TTX geocomposite are placed independently on the waterproofing layer to protect it during the installation of the backfill.

DESCRIPTION

ANTIROCK PR membrane is a torchable waterproofing membrane made from polymer modified bitumen (SBS elastomer) with a non-woven polyester reinforcement mesh (250g/m²). Anti-root agents are added. The underside is covered by a thermofusible plastic film and the top surface is protected by slate chippings.

The grey-coloured slate chippings provide excellent mechanical protection during the application of coated materials as well as protecting against UV rays during the construction phases. It therefore does not require any form of temporary protection.

SOPREMA prides itself in working with the highest quality products. We operate with quality assurance systems and are certified ISO 9001.

✔ Anti-root resistance ✔ High mechanical resistance ✔ Automated installation

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CHARACTERISTICS

ESSENTIAL CHARACTERISTICS	Standard	ANTIROCK PR
Watertightness	**EN 14694**	**Compliant**
Water absorption at 20°C after 30 days (1)	**EN 14223**	**0.75**
Adherence to concrete (N/mm²) (1)	**NF P 98 282** **EN 13596**	**≥ 0.4 (at 20°C)** **≥ 0.7 (at 23°C)**
Flexibility at low temperature (°C) (2)	**EN 1109**	**-10**
Shear strength (N/mm²) (1)	**EN 13653**	**≥ 0.3**
Resistance to compaction of a layer of bitumen coated materials	**EN 14692**	**Compliant**
Creep resistance at high temperatures (1)	**EN 1110**	**100**

OTHER CHARACTERISTICS	Standard	ANTIROCK PR
Mass per unit area (2)	**EN 1849-1**	**5.3 kg/m²**
Thickness (2)	**EN 1849-1**	**4.7 mm on chippings** **4 mm on selvedge**
Maximum tensile force / Elongation (2) **Longitudinal** **Transverse**	**EN 12311-1**	 **25 daN/cm / 50%** **20 daN/cm / 55%**
Resistance to root penetretion	**EN 13948**	**No perforation**

(1) Manufacturer's Limiting Value
(2) Manufacturer's Declared Value

PACKAGING

Dimensions	**8 ml x 1 m / Jumbos 190 ml x 1 m**
Number of rolls per pallet	**25 rolls / 1 Jumbo**
Storage	**Upright on pallet**

MARKING

Unique identification code of the product-type: WPBFR0801.

CERTIFICATION

ANTIROCK PR has obtained the following certifications:
France:

- CETU technical approvals (with Elastocol 500 TP, Aquadere TP, Glacivap or REKU P70 primers)