ANTIROCK BRIDGE

TECHNICAL DATA SHEET

ANZ-TDS-21-ANTIROCK BRIDGE

WATERPROOFING

APPLICATIONS

PARKING DECKS

CIVIL WORKS

DESCRIPTION

ANTIROCK BRIDGE is a torchable waterproofing membrane made from polymer modified bitumen (SBS elastomer) with a non-woven polyester reinforcement mesh. 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.

ANTIROCK BRIDGE can be used for road bridges, rail bridges, car parks or slabs directly underneath one or more layers of asphalt bituminous mixtures.

ANTIROCK BRIDGE is welded and smoothed onto a substrate prepared with ANTIROCK primer. The asphalt is laid directly onto the membrane. The welding is performed: either manually or automatically with a flame or using hot air (MACADEN® system).

- VicRoads approved
- Used directly underneath asphalt
- High mechanical resistance
- High puncture resistance
- Possibility of automated installation

INSTALLATION PROCEDURE

SUBSTRATE

- No work should be started until all surfaces are smooth, dry, and free of ice, snow or any other substance that may prevent the membrane from adhering properly
- Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets
- Do not install heat welded membranes directly onto combustible substrate
- Concrete substrate must be fully cured before application of the membrane
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 6, as per the International Concrete Repair Institute
- Adhesion test is recommended prior to installation of membrane
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator

PRIMING

- All concrete bridge deck surfaces to receive the waterproofing membrane application shall be primed with ANTIROCK PRIMER
- The adhesive coat must be applied to a dry substrate using a brush or sprayer. Wait until the adhesive coat is dry (the primer must be tack-free) before the installation of the membrane. The drying time varies with the climatic conditions, quantities applied and the porosity of the concrete
- The primer will accept light foot traffic once it is dry, and where necessary will accept vehicular traffic with rubber tires
- WARNING: Do not accelerate drying of ANTIROCK PRIMER by heating with a torch

MANUAL WELDING

- Before welding, the stripes must be taken-off of the roll
- Unroll **ANTIROCK BRIDGE** membrane sheets onto the deck
- Starting at the low point of the deck, lay out the **ANTIROCK BRIDGE** membrane to ensure the plies are installed perpendicular to the deck slope, shingled to prevent back-water laps and paralle to the driveway
- Ensure specified side-laps and end-laps are maintained. End-laps should be staggered 1 m apart

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE

ANTIROCK BRIDGE

WATERPROOFING

APPLICATIONS
PARKING DECKS
CIVIL WORKS

TECHNICAL DATA SHEET

AUTOMATIC WELDING

- Before welding, the stripes must be taken-off of the roll
- Dispatch **ANTIROCK BRIDGE** rolls sheets onto the deck
- Pre-aligne Mini-MACADEN, install the **ANTIROCK BRIDGE** membrane on the chassis and start the machine
- Stop the burner at the end of roll and proced the welding manually of the end roll

Where conditions allow, use MACADEN machine with jumbo rolls. This solution is recommended for all bridges of a size > 1.000 sqm. A separation screen is recommended for the case of a large concrete protection slab.

PACKAGING

SPECIFICATIONS	ANTIROCK BRIDGE	
	Classic	Jumbo
Colour	grey	
Dimensions	8 m x 1 m	200 m x 1 m
Weight	38 kg	940 kg
Roils per pallet	30	1

PROPERTIES

PROPERTIES	STANDARD	ANTIROCK BRIDGE
Watertightness	EN 14694	Pass
Water absorption	EN 14223	0.75
Tensile properties Tensile strength (L/T) Elongation (L/T)	EN 12311-1	≥ 550 N/50mm / ≥ 400 N/50mm ≥ 30 % / ≥ 30 %
Bond strength	EN 13596	0.67 N/mm²
Crack bridging ability	EN 14224	-10°C
Compatibility by heat conditioning	EN 14691	100 %
Shear strength	EN 13653	0.3 N/mm²
Resistance to thermal impact Surface proportion (%) Thickness variation (mm)	EN 14693	NPD NPD
Resistance to compaction of an asphalt layer	EN 14692	Pass
Durability at thermal ageing Flexibility at low temperature Flow resistance at elevated temperature	EN 1109 EN 1110	-10°C 80°C
Dangerous substances (Notes 1)	-	Complies
Mass per unit area	EN 1849-1	4.7 kg/m²
Thickness	EN 1849-1	4.0 mm on protections

(All values are nominal)
Note 1: This product does not contain asbestos or tar constituents.

ANTIROCK
BRIDGE

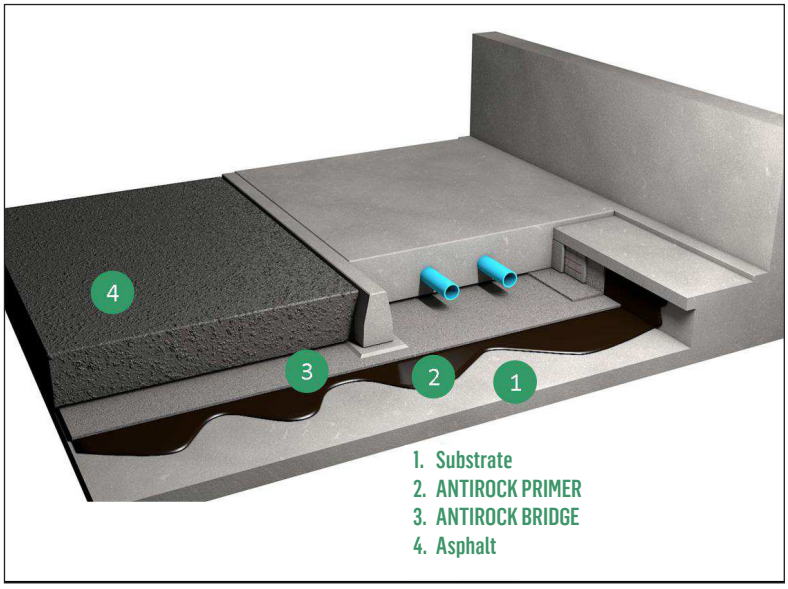
WATERPROOFING

APPLICATIONS
PARKING DECKS
CIVIL WORKS

TECHNICAL DATA SHEET

ANZ-TDS-21-ANTIROCK BRIDGE

VISUAL



STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.

Note: Field service where provided, does not constitute supervisory responsibility. Suggestions made by Soprema Australia Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they are responsible for carrying out procedures appropriate to a specific application.