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 section 691 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

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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.

TDS_ANTIROCKL_BRIDGE_05-2021_RA

ANTIROCK
BRIDGE

WATERPROOFING

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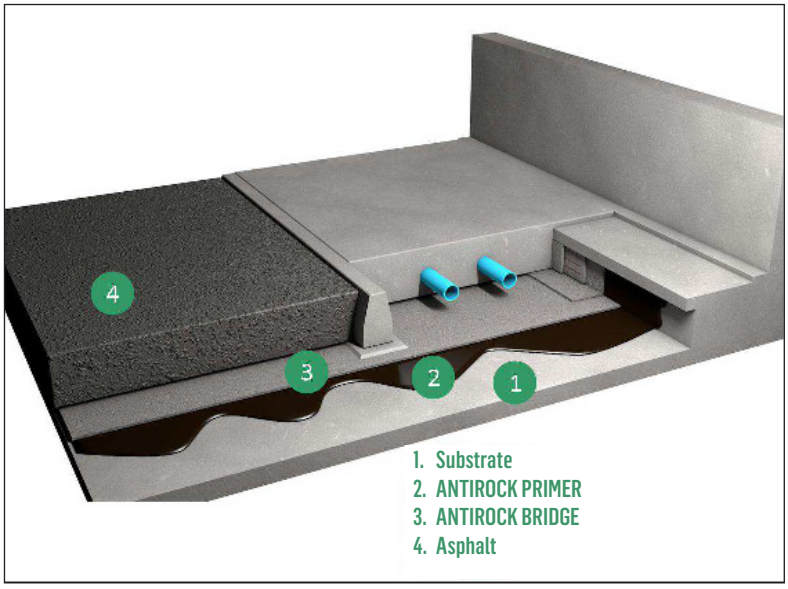
TECHNICAL DATA SHEET

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

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ANTIROCK PRIMER

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

BRANZ Appraised
Appraisal No.1145 [2021]

TECHNICAL DATA SHEET

ANZ-TDS-11-ANTIROCK PRIMER

ACCESSORY PRODUCTS

APPLICATIONS
ROOFS
FOUNDATIONS
CIVIL WORKS

DESCRIPTION

ANTIROCK PRIMER is a blend of SBS modified bitumen, fast-evaporating solvents and adhesive enhancing additives.

ANTIROCK PRIMER is used to prime concrete and metal surfaces to improve the adhesion of SOPREMA bituminous torch-on membranes.

INSTALLATION PROCEDURE

- ANTIROCK PRIMER can be applied with a brush or roller on clean, dry substrates free of any residue that may hinder adherence. Shake well before using.
- It must be thoroughly dry before applying the waterproofing membrane. Drying time will vary depending on air and surface temperature and humidity.

WARNING: Do not accelerate drying of ANTIROCK PRIMER by heating with a torch.

CLEANING

- Tools can be cleaned with petroleum solvents such as mineral spirits, varsol, xylene, etc.

RESTRICTION

- ANTIROCK PRIMER is a highly flammable product.
- Store away from direct sunlight and open flame. Keep ignition sources away during application and until solvent has evaporated. Harmful if inhaled, swallowed or when in contact with the skin. In closed areas, ventilate carefully using mechanical means if necessary.
- Do not pour residues in drains.

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

PACKAGING

SPECIFICATIONS	ANTIROCK PRIMER
Physical state	Liquid
Colour	Brown
Coverage	0.15 to 0.25 l/m^2
Packaging	19 l
Pails per pallet	36

TDS_ANTIROCKL_PRIMER_11-2020

SOPREMA®

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

ANTIROCK PRIMER

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

BRANZ Appraised
Appraisal No.1145 [2021]

ACCESSORY PRODUCTS

APPLICATIONS
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PROPERTIES

PROPERTIES	ANTIROCK PRIMER
Specific gravity at 20°C	0.91 kg/l
Solids by weight	35 %
Brookfield Viscosity, 25 °C	50 cP
Flash point, ASTM D93	-3 °C
Drying time on smooth surfaces *	Minimum 1 hour

(All values are nominal)
* In all cases, drying time must allow complete evaporation of solvents.

STORAGE AND HANDLING

Shelf life: Up to 5 years in original sealed containers, in cool and ventilated area.

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ALSAN FLASHING

TECHNICAL DATA SHEET

ANZ-TDS-14-ALSAN FLASHING

BRANZ Appraised
Appraisal No.1145 [2021]

WATERPROOFING

APPLICATIONS
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FOUNDATIONS
ADDITIONAL EXPERTISE

DESCRIPTION

ALSAN FLASHING is a waterproofing one-component polyurethane / bitumen resin. It is dedicated to roof flashings and details where it is difficult to apply waterproofing membranes.

ALSAN FLASHING is ready to use.

- Compliance with AS 4654.1
- One component, no mixing required
- Superior protection against moisture
- Conforms easily to any irregular shapes
- Great for quick, cost effective repairs

FIELD OF APPLICATION

- General roofing
- Plaza decks & Terraces
- Balconies
- Foundations

INSTALLATION PROCEDURE

SURFACE PREPARATION:

- Concrete must be fully cured (28 days) with a minimum hardness of 24 MPa (3500 psi). Surface needs to be sound, clean and free of dust or debris
- Concrete surface must be prepared to obtain concrete surface profile (ICRI CSP) of 3 or 4. To obtain such a profile, the use of special equipment such as shot blasting is recommended
- Without primer: traditional granulated and sanded bituminous waterproofing membranes, wood, metal, prepaint metal, concrete, polyurethane membrane (TRAFIK HP) and PVC pipe (vertical partition wall only)
- With primer (ELASTOCOL STICK): membranes with HDPE surface
- PVC pipe must be sanded with sandpaper
- All metal surfaces must be cleaned with non-greasy solvent such as acetone or Methyl Ethyl Ketone (MEK). Metals surfaces must be smooth, clean and uncontaminated (free of oxydized bitumen)
- When needed, concrete reparation must be done with appropriate products

APPLICATION:

- Mix well the product before use,
- ALSAN FLASHING is applied with a with a trowel, a brush or a roller in two (2) layers, or in three (3) layers when POLYFLEECE is required. Each layer must have a minimum wet film thickness of 0.8mm (30 mil), the third layer is requiered when granules are used.
- Transitions, changes in plan and junctions between two supports, must be reinforced with POLYFLEECE. POLYFLEECE is installed in a first layer of ALSAN FLASHING. This layer must be thick enough to completely immerse the reinforcement. POLYFLEECE will be immediately covered with a second layer of ALSAN FLASHING until saturation
- Third coat will be apply waiting 3h or when the second coat is tacky free
- ALSAN FLASHING is UV resistant. It can be left exposed without protection. For aesthetic purposes, the top coat can also be covered with roofing granules
- Do not use if rain or snow is predicted within 12 hours after the installation

For proper curing, minimum application temperature is 5°C.
Service temperature: -30 to 150°C.

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

TDS_ALSAN_FLASHING_08-2024

ALSAN FLASHING

TECHNICAL DATA SHEET

ANZ-TDS-14-ALSAN FLASHING

BRANZ Appraised
Appraisal No.1145 [2021]

WATERPROOFING

APPLICATIONS
ROOFS
FOUNDATIONS
ADDITIONAL EXPERTISE

PACKAGING

PACKAGING	Coverage	Wet film thickness	Dry film thickness
ALSAN FLASHING 3.78 L	4.6 m^2	0.8 mm	0.6 mm
ALSAN FLASHING 19 L	23 m^2		

PROPERTIES

PROPERTIES	TEST METHOD	ALSAN FLASHING REINFORCED*
Physical state	-	Brown viscous liquid
Density at 25 °C	-	1.07 kg/L
Solids content	-	80 %
Softening point	-	150 °C
Ultimate elongation	ASTM D412	500 %
Breaking strength	ASTM D412	1.35 MPa
Peel resistance	ASTM D903	102.3 N
Tear resistance	ASTM D 5147, sec.7	253.5 N
Water vapour permeance	ASTM E96 (Procedure B)	< 30 ng/Pa•s•m^2 (< 0.47 perm)
Peel adhesion after water immersion	ASTM C836	792 N/m
Drying time	-	Ready to recoat after 2 hours Dry: 12 hours (remains tacky to touch)
Fully cured*	-	3 days
Abrasion resistance*	AS 1580.403.2	Pass
Bond Strength* (on granulated membranes)	ASTM D903	> 1000 N/m
Cyclic Movement*	CSIRO Moving Joint Test	Pass
Elongation at Break*	AS1145	> 200%
Heat Aging*	Appendix A4- AS4654	Pass
Temperature Resistance*	AS 4654.2	Pass
Tensile Strength at max load*	Appendix A4-AS 4654	> 6.5 kN/m
UV resistance / Durability*	Appendix A4- AS 4654	Pass

* with Polyfleece

STORAGE AND HANDLING

Shelf life: 12 months, pot must be stored in the delivery packaging, in a dry and protected environment.

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ALSAN
VOILE FLASHING

TECHNICAL DATA SHEET

ANZ-TDS-132-ALSAN VOILE FLASHING

ACCESSORY PRODUCTS

APPLICATIONS

ROOFS

FOUNDATIONS

GREEN ROOFS

DESCRIPTION

ALSAN VOILE FLASHING is used as reinforcement and ensures that a minimum layer thickness of the ALSAN FLASHING JARDIN waterproofing resin must be applied.

APPLICATION

- Apply the ALSAN VOILE FLASHING on top of the first layer of wet resin in place, then install the last second layer of the resine directly on top.
- The ALSAN VOILE FLASHING overlap must be at least 50 mm. Resin must be applied between the overlaps.

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

PACKAGING & PROPERTIES

SPECIFICATIONS	TEST METHOD	ALSAN VOILE FLASHING
Density	-	110 g/m²
Thickness	-	0,37 mm
Colour	-	White
Width	-	100 / 150 / 200 / 260 / 350mm
Length	-	50 m

STORAGE AND HANDLING

Store in a dry place protected from moisture and pollution.

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