

COLPHENE 2500



WATERPROOFING

APPLICATIONS

FOUNDATIONS

PLAZA DECKS

TECHNICAL DATA SHEET

ANZ-TDS-22-COLPHENE 2500

DESCRIPTION

COLPHENE 2500 is a self-adhering membrane which is manufactured from a select blend of elastomeric SBS modified bitumen. The surface is composed of a high-density cross-laminated HDPE carrier film with superior mechanical properties, and the underface is covered with a release protection film.

COLPHENE 2500 membrane provides a durable, water-tight seal for the building envelope protecting substrates from water, vapor and gases infiltration including methane gas during the product life cycle.

FIELD OF APPLICATION

Designed for single-ply or two-ply assemblies, **COLPHENE 2500** is used for vertical and horizontal applications over concrete, masonry and timber substrate such as:

- Plaza decks
- Retaining Walls
- Foundations
- General roofing and Roof garden

APPLICATION METHOD

COLPHENE 2500 is self-adhered 'peel and stick' membrane installed over a prepared substrate using ELASTOCOL STICK PRIMER or ALSAN EP 100 H2O and neoprene roller.

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.
- Concrete substrate must be fully cured before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 2 and 4 as per 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

INSTALLATION

PRIMING

- When installed as top layer over base sheet membrane, primer is not required if installed the same day
- When installed over concrete or metal surface prime with ELASTOCOL STICK PRIMER or ALSAN EP 100 H2O at the rate specified in TDS

APPLICATION

- Install all required reinforcements
- Ensure that membrane rolls are well aligned
- Pull on sheet and lay it out while flattening the surface so as to avoid air getting trapped

Cold-Applied, Flameless Solution

Excellent mechanical properties

Greater flexibility

Excellent dimensional stability

Resistance to Aggressive Soil

Consistent thickness



SOPREMA.COM.AU • +61 (3) 9221 6230

TDS_COLPHENE_2500_10-2020

1/3

COLPHENE 2500



WATERPROOFING

APPLICATIONS

FOUNDATIONS

PLAZA DECKS

TECHNICAL DATA SHEET

ANZ-TDS-22-COLPHENE 2500

APPLICATION (CONT.)

- **COLPHENE 2500** membrane must be adhered to support by peeling off the silicone release film
- Side lap joints must be a minimum of 75 mm and end lap joints must be a minimum of 150 mm
- Once installed, a pressure must be applied over the whole surface using a membrane roller to ensure good contact
- Apply SOPRAMASTIC or SOPRAMASTIC ALU and ALSAN FLASHING or ALSAN FLASHING JARDIN to seal details and critical areas
- Prior to backfilling, protect **COLPHENE 2500** membrane with SOPRABOARD protection board or SOPRADRAIN drainage boards

PACKAGING

SPECIFICATIONS	COLPHENE 2500
Thickness	1.5 mm
Roll dimensions	20 m x 1 m
Roll weight	34.6 kg
Top face	Cross laminated HDPE film
Under face	Silicone-coated removable plastic film
Rolls per pallet	27

PROPERTIES

PROPERTIES	STANDARDS	COLPHENE 2500	
		Machine Direction (MD)	Cross Machine Direction (CMD)
Tension maximum load (kN/m)	ASTM D5147	4.6	6.0
Elongation at maximum tension (%)	ASTM D5147	420	315
Elongation at break (%)	ASTM D5147	450	320
Elongation at break— bitumen (%)	ASTM D5147	>1000	
Low temperature flexibility (°C)	ASTM D5147	-20	-20
Water absorption (%)	ASTM D5147	0.40	
Average tear resistance (kN/m)	ASTM D5601	35	40
Static Puncture resistance (N)	ASTM D5602	Pass at 390	
Lap Adhesion (N/m)	ASTM D1876	1800	
Adhesion to steel plates (N/m)	ASTM D903	2000	
Adhesion to primed concrete (N/m)	ASTM D1000	2200	
Water Vapour Transmission (ng/Pa•s•m2)	ASTM E96 Method B	<2.1	
Compound stability	ASTM D5147	Pass at 90°C	



SOPREMA.COM.AU • +61 (3) 9221 6230

TDS_COLPHENE_2500_10-2020_RA

2/3

COLPHENE 2500



WATERPROOFING

APPLICATIONS

FOUNDATIONS

PLAZA DECKS

TECHNICAL DATA SHEET

ANZ-TDS-22-COLPHENE 2500

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 is responsible for checking the suitability of products for their intended use.



SOPREMA.COM.AU • +61 (3) 9221 6230

TDS_COLPHENE_2500_10-2020_RA

3/3