



PC-VASE® SD

SAND COATED HDPE MEMBRANE

PC-VASE® SD Sand Coated HDPE Membrane is a unique, high performance, flexible High-Density Polyethylene (HDPE) sheet with pre-applied pressure sensitive adhesive and a reactive inorganic fine granule layer on it, manufactured & supplied in thickness of 1.5 mm, designed for waterproofing basements & podiums of new buildings. The membrane is designed for adhesion to poured concrete for easy application below rafts & reinforcements. Based on advanced polymer chemistry, the membrane has excellent resistance to chemical acids, bases, alkalis, salts and other corrosive materials, while providing a barrier to water seepage from below ground. The sheet remains flexible over years, maintaining its integrity and continuing to provide protection. High mechanical properties of the membrane ensure superior puncture resistance and tensile strength, while enabling excellent bond along the edges.

FEATURES

- Supplied in pre-manufactured standard thickness is 1.5 mm.
- Excellent Adhesion with concrete placed over the membrane, to protect the structure from positive side.
- Low flatness requirement to substrate; reliable overlapping; fast and easy application.
- Continuous serviceability from -25°C to 80°C - without cracking, tearing or brittleness failure.
- Outstanding puncture resistance, high breaking and tearing strength, with high peel strength on overlap joints.
- Two side lamps make the joints more robust.
- Chlorine free, plasticizer free, phthalate free. Environmentally friendly and safe for humans.
- Excellent resistance to heat, UV and Ozone.
- Prevents lateral water migration and is resistance to high hydrostatic head.
- Flexible, fast and easy application.
- Resistant to high hydrostatic ground water pressure.
- Resistant to aggressive ground water conditions.
- Eco-friendly material.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Colour	White
Sheet Polymer	HDPE
Thickness	1.5 mm
Roll Size	1.2 x 20 = 24 m ²

SPECIAL INSTRUCTIONS

PC-VASE® SD pre-applied waterproofing membrane can be installed at temperature of -5 °C and above. Installation of membrane in cold weather application care should be taken to pre-heat the adhesive edge during overlapping by using hot air gun.

INSTRUCTION FOR USE

SURFACE PREPARATION

The concrete substrate must be in optimal condition to provide a stable foundation for **PC-VASE® SD**, preventing membrane displacement during the concrete pouring process. It is essential to verify that the surface is uniformly smooth, devoid of gaps or voids exceeding 12mm, clear of sharp objects, and free from any accumulation of water.

APPLICATION

When working in horizontal sections, unfurl **PC-VASE® SD** and position it meticulously, ensuring proper alignment. Orient the membrane with the white HDPE film facing the substrate, allowing for a 75mm overlap between each section. To optimize bonding at overlaps, peel back and completely remove the plastic release liner, facilitating optimal adhesion between layers. Employ a hand roller to press and roll, eliminating any trapped air bubbles at the overlap joint. For seamless continuity around corners and upstands, utilize self-adhesive HDPE tapes. It is imperative to ensure proper adhesion in these critical areas.

In vertical confined spaces, it is recommended to utilize **PC-VASE® SD**. Position the thick white plastic face against a leveled substrate, such as pointed blockwork, plum concrete wall, or shuttering face. Secure the membrane mechanically using flat-headed fixings, spaced 600mm apart in a zigzag pattern to ensure optimal flatness against the surface. When applying the membrane, ensure an overlap by removing the plastic to achieve a seamless bond. For unconfined areas, consider using self-adhesive HDPE or SBS membranes on the cured concrete surface, following the same overlapping procedure for a reliable application.

TERMINATIONS

At the end of each roll, there will be an 80 mm flat self-adhesive section for overlapping. Remove the adhesive backing and join both sections to achieve seamless terminations. For detailed site termination guidelines, kindly reach out to PC-WC UAE for thorough assistance.

DAMAGE REPAIR

In case of membrane damage or puncture, a prompt solution involves applying an oversized patch onto a clean, dry surface and securing it with adhesive tape. Following the assembly of the reinforcement cage for the raft, it is crucial to inspect the membrane for any punctures or damage. Any identified damage must be promptly repaired before proceeding with the concreting process.

TECHNICAL DATA

Characteristic	Unit	Value	Comments
Tensile Strength (Bare HDPE Film)	mpa	25.0	ASTM D412
Elongation (Bare HDPE Film)	%	600	ASTM D412
Peel Adhesion to concrete	N/m	880	ASTM D 903
Puncture resistance	V	>1000	ASTM E154-2008
Lap Peel Adhesion To the concrete	N/mm	1500	ASTM D 1876
Resistance to Hydrostatic Pressure		No Water Leakage	At 100 psi/7 bar for 1hour as per DIN 16726-2011 / ASTM D5385-2000
Water Absorption	%	0.5	ASTM D570
Crack cycling	--	Pass	ASTM D 836
Low Temperature Flexibility	°C	-25°C Pass	ASTM D 1970
Dimensional Stability	%	0.5	ASTM D 1204

SAFETY ADVICE

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.



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TECHNICAL DATA SHEET UPDATED IN
SEPTEMBER 2020
TDS/PC-VASE® SD/2023-02

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our [website www.pc-wc.com](http://www.pc-wc.com)