



STARSEAL 100

EPDM RUBBER WATERPROOFING MEMBRANE

DESCRIPTION

STARSEAL 100 is 100% Ethylene propylene diene monomer (EPDM) elastomeric membrane for excellent water proofing of Roof, Swimming Pools, Foundations of any civil construction, soak pits for animal feed, bio gas plant, total prevention of sub-soil water seepage in tanks, canals etc.

ADVANTAGE

STARSEAL 100 is produced in accordance to ASTM D4637 and ASTM 6134. The sheets confirms to the minimum requirement for carbon black reinforced black EPDM rubber sheet for use in waterproofing.

STARSEAL 100 can be installed ballasted, fully adhered or mechanically fastened for either new or reroof applications.

STARSEAL 100 is available in thickness 1mm to 1.5mm and width for 1mtr to 1.5mtrs. The sheets are available in both side fabric impressions surface for better gripping as well as both side smooth surfaces.

These single layer black membranes are light in weight and have exceptional long lasting elasticity permitting the materials to withstand followings.

- Building movement. Expansion - Contraction of Building surface.
- High resistance to Ozone and weather as they are known as
- Low Specific gravity - lightest among all rubbers.
- Widest Temperature range from - 50°C to + 150°C.
- Excellent Steam and Water Resistance.

STANDARDS COMPLIANCE

- American Society for Testing & Materials:
- ASTM D412 - Rubber Properties in Tension
- ASTM D471 - Rubber Property - Effect of Liquid
- ASTM D573 - Rubber Deterioration in an Air Oven
- ASTM D624 Method C - Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- ASTM D1149 - Rubber Deterioration-Surface Ozone Cracking in a Chamber

- ASTM D2240 – Durometer Hardness of Rubber Materials
- ASTM D297 Method C – Chemical Analysis: Density.
- ASTM D5963 – Abrasion resistance (Rotary Drum Abrader) of Rubber Materials
- ASTM D395 Method B – compression set of Rubber Materials

TECHNICAL SPECIFICATION

EPDM MEMBRANE BASED ON ASTM - D4637 & ASTM 6134

Tolerance on Thickness, %	ASTM D 412	15 / - 10
Colour	Visual	Black
Hardness	ASTM D2240	65 ± 5 Sh A
Tensile Strength (min)	ASTM D412	100 KG/CM ²
Elongation At Break (min)	ASTM D412	350%
Tear Resistance kg/cm	ASTM D624 method C	35
Density	ASTM D297	1.20
Abrasion	ASTM D5963	300 mm ³
Compression Set	ASTM D395 B	35 %
After heat aged @ 70°C X 70 Hrs (% Change)	Hardness Tensile Strength Elongation	+5 +10/-15 +10/-15
Volume Swell @ 70°C X 72 Hrs (% Change)	ASTM oil #1 ASTM oil #2 ASTM oil #3	NA NA NA
Polymer Content (Neoprene)		50%
Chemical resistance	Ozone Dilute Acid/Base Cont. Acid/Base Oil Solvent	Excellent Excellent Good NA NA

METHOD OF APPLICATION

PREPARATORY WORK

The dead load capacity of the deck and structure must be sufficient to support the load of the roofing system. The deck must be designed and constructed to provide removal of all water within 48 hours after a rainfall. Substrate must be smooth, level and clean. Loose gravel on existing roofs must be removed.

MEMBRANE INSTALLATION

Position membrane over approved substrate without stretching. Lap edges minimum 2" (51 mm); allow membrane to relax for 1/2 hour prior to splicing or flashing.

SPLICES WITH SEAM TAPE (ACROTAPE PDM 190)

Clean seams with suitable cleaner (mild solvent) to remove visible talc and other contaminate. Apply even coat of **ENIFIX PDM 26** (EPDM Adhesive) to both top and bottom surfaces of the membrane which will come in contact with seam tape and allow to dry completely. Unroll seam tape along full length of seam; leave backing paper in place. Hand rolls tape, ensuring good contact with membrane. Unpeel paper backing from the side of tape toward the top sheet. Allow top membrane to fall freely onto seam tape. Avoid fish mouths. Do not roll seam immediately. Instead, first ensure contact to seam tape by brushing hand across seam at a right angle along length of seam. Then hand roll entire length of seam, ensuring complete contact between membrane and seam tape. Apply hot air with Hot air Gun on both sides of seams to insure better bonding on both sides.

SPLICES WITH ADHESIVE

Clean seams with suitable cleaner (mild solvent) to remove visible talc and other contaminate. Apply even coat of **ENIFIX PDM 26** (EPDM Adhesive) to both top and bottom surfaces of the membrane. **DO NOT THIN ADHESIVE**. Allow adhesive to dry to a finger push and touch test. Allow top membrane to fall freely onto bottom membrane without stretching. Immediately apply pressure to bring bonding surfaces into complete contact. Hand roll entire splice with a rubber or teflon roller. Important: Clean area on both sheets at least 2" (51 mm) each way from edge of splice. Lay down a High Profile bead of edge caulk along entire length of splice. Ensure that bead covers the step down edge; **DO NOT TROWEL**. All splices must be caulked before end of day.

FLASHINGS AND ATTACHMENTS

Membrane must be attached to roof deck at perimeter of each roof level, curb flashing, skylight, expansion joint and roof penetration in accordance with STARSEAL 100 EPDM details.

Use aluminum z flashing for better results where termination of sheet required.

PACKING

STARSEAL 100 is available in 1.2X10 mtrs to 1.2X30 meters length. The sheets are wound on a paper tube and the outer surface of the rolls is suitably covered with HDPE packing material.

NOTE:- We make no warranty either expressed or implied or statutory in this document except as expressly stated in any sale and purchase agreement entered into between the buyer and us. This document is a technical data information sheet. The information given in this sheet is to the best of our knowledge, true and accurate. However buyers are requested to confirm the same in their laboratories as test results may vary between two laboratories due to change in test conditions, purity of chemicals and personal error of chemists. Under the above conditions we are not liable for special, incidental or consequential damage.

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In Technical Collaboration with:-



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(ISO 9001:2000)