

## ABOUT AMROCK ENTERPRISE PVT. LTD.

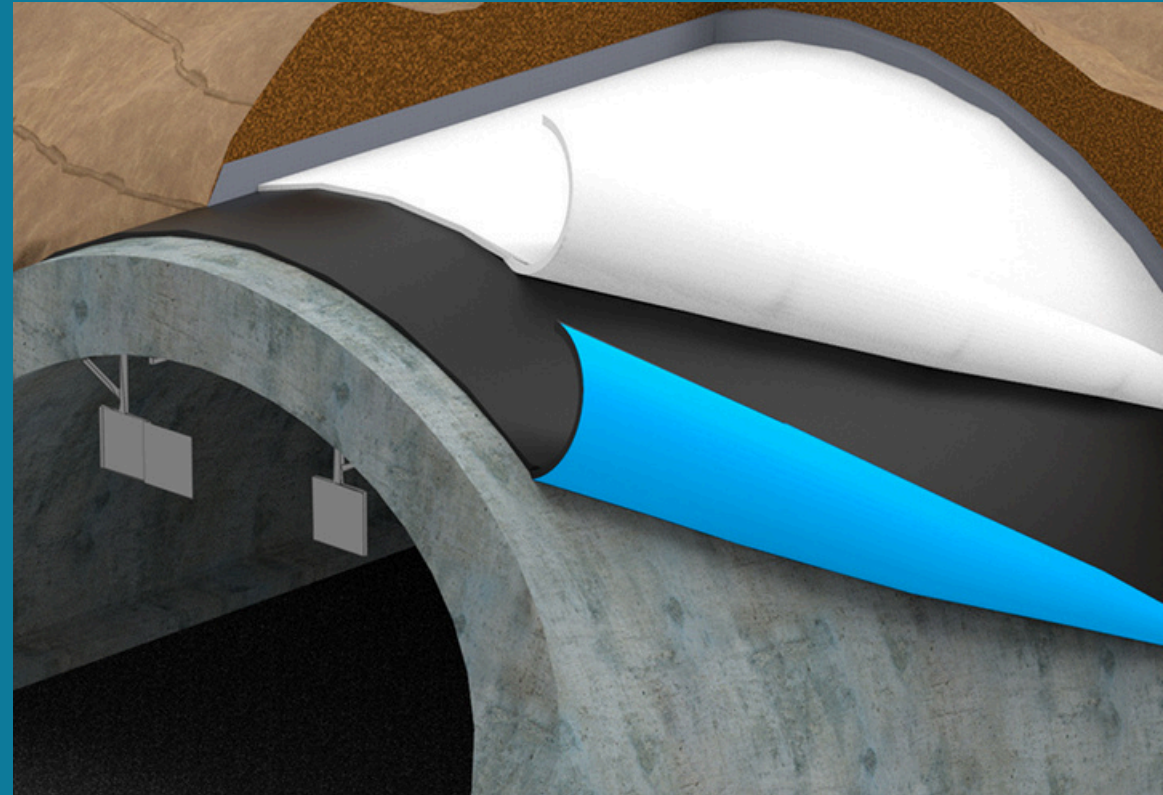
AMROCK ENTERPRISE PRIVATE LIMITED is an ISO 9001:2005 certified company established with a vision to supply superior quality products at an economical price. It is currently based in Rajkot, Gujarat. AMROCK has rapidly become a prominent supplier of construction tools, machinery, and PVC roundels to projects spanning PAN India. Expanding our footprint within the broader spectrum of infrastructure and construction, we are proud to introduce a cutting-edge non-woven geotextile membrane crafted from polypropylene and polyester.

Our primary goal is to provide unparalleled geosynthetic solutions and a diverse range of services. By doing so, we aim to empower owners and contractors with reliable and cost-effective options to address a myriad of geotechnical, transportation, hydraulic, and environmental challenges.

At AMROCK, we are unwaveringly committed to upholding the highest standards in all our commercial relationships with customers. Our dedication extends beyond transactions, emphasizing the cultivation of enduring, long-term partnerships. This commitment ensures that our clients not only receive superior products and services but also benefit from a sustained and mutually beneficial collaboration.

As we continue to evolve and innovate, AMROCK ENTERPRISE PRIVATE LIMITED remains steadfast in its mission to deliver excellence, foster innovation, and build lasting connections within the dynamic landscape of the construction and infrastructure industry.

## GEOTEXTILE MEMBRANE



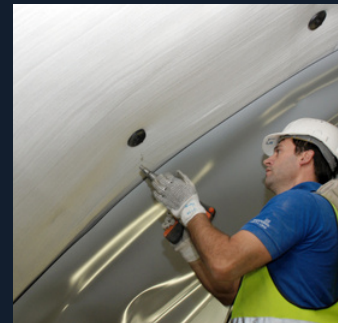
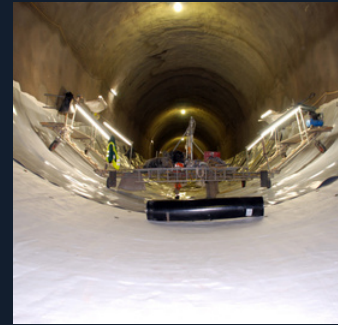
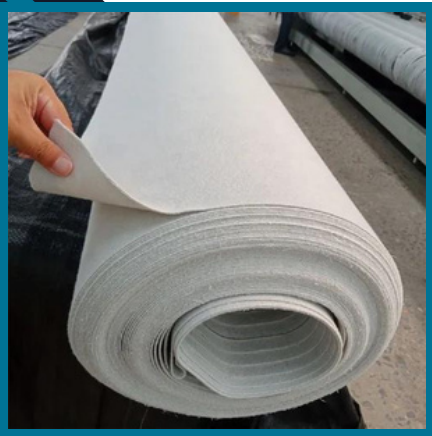
## CONTACT US

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## AMROCK Geotextile Membrane

AMROCK Nonwoven geotextiles are crafted from high-tenacity polypropylene/polyester staple fibers, intricately needle-punched, thermo-calendered and UV stabilized to create a robust, flexible, and dimensionally stable fabric structure. This results in an exceptionally permeable material with optimal pore sizes. Our commitment to quality is evident through the use of cutting-edge technology. The geotextile exhibits resistance to chemicals and biological organisms commonly present in soils, and it is fortified against degradation caused by short-term exposure to ultraviolet radiation, adhering to stringent world-class manufacturing standards. AMROCK Nonwoven geotextiles contribute to improving the useful life of tunnels.



## Geotextile in tunnel construction

Modern tunnel construction involves applying shotcrete to smooth the rock face post-excavation. A geocomposite or needle-punched non-woven geotextile is then anchored with steel bolts and polymer discs on the sprayed concrete. The Tunnel liner, typically made of High-Density Polyethylene (HDPE) membrane, is welded to these discs after rigorous testing. A final layer of ring concrete adds structural strength, creating a resilient tunnel lining system that provides effective drainage and long-term moisture resistance.

The geotextile serves dual purposes within the tunnel infrastructure:

1. Shielding the liner from abrasion and puncture caused by protrusions from the tunnel well's base surface.
2. Facilitating effective drainage by allowing water to permeate through the rock and sprayed concrete layer. The in-plane permeability of the geotextile enables the water to flow toward a subsurface drainage collection system, diverting it away from the tunnel and ensuring optimal performance.