



NovaShield
BRAND

CASE STUDY

ENHANCING STORAGE FACILITY EFFICIENCY FOR AN ALUMINA PLANT WITH NOVASHEILD ADVANCED MEMBRANE TECHNOLOGY.



Customer Overview

An alumina plant in China, needed a reliable storage facility solution that could withstand harsh environmental conditions, particularly acid and alkali exposure.



Superior durability



Quick installation

The Challenge

The customer needed a reliable, cost-effective material capable of withstanding extreme corrosion while maintaining structural integrity over time. Traditional materials deteriorated quickly in the harsh environment, increasing maintenance costs and reducing operational efficiency. Additionally, the facility required a solution that could improve lighting conditions and reduce energy consumption.

Proposed Solutions

IPG recommended NovaShield, a PE membrane designed for superior acid and alkali resistance to ensure long-term durability. Its lightweight composition allowed for quick installation, reducing labor costs and downtime.

NovaShield's translucency improved lighting conditions by allowing natural light to filter through, reducing the need for artificial lighting and lowering energy expenses. Additionally, its durable structure provided a secure storage environment, enhancing efficiency and minimizing future maintenance needs



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Results

NovaShield delivered significant benefits across multiple areas. Its superior acid and alkali resistance extended the lifespan of the membrane, reducing material degradation and minimizing maintenance costs. The lightweight design allowed for a faster installation process, cutting labor expenses and ensuring minimal disruption to operations. Additionally, its inherent translucency improved lighting conditions by allowing natural light to filter through, lowering energy consumption and operational costs. By providing a secure and durable storage environment, NovaShield enhanced overall efficiency, ensuring a reliable solution for ore storage in a demanding industrial setting.



**Energy
Efficiency**



**Reduced
maintenance**



**Cost
Savings**

“NovaShield exceeded our expectations in durability, ease of installation, and energy efficiency. It has transformed our operations.”

Conclusion

NovaShield provided a durable, cost-effective solution that exceeded expectations, ensuring a longer-lasting storage environment with reduced maintenance and energy expenses. By investing in high-performance materials, the customer achieved improved efficiency and long-term sustainability.