

How KRUBBER is contributing to sustainable industrial reservoirs and ponds with innovative pond lining systems.


Client: Grasim Industries



Industry: Decorative Paints

Project: Grasim Paints, Ludhiana

Design Consultant: Jacobs Engineering 

Contractor: Larsen and Toubro 

System Used: KRUBBER composite Pond lining of 2mm thick

Installed Area: 8000 Sq.M

Grasim aims to be one of the biggest players in the fast-growing decorative paints industry. It is setting up six manufacturing plants in Haryana, Punjab, Karnataka, Tamil Nadu, Maharashtra and West Bengal with a total capacity of 1332 MLPA. Each plant has Storm water and Rainwater reservoirs for effective containment of discharges.

Overview

About Industrial reservoirs, ponds and their usage: The stormwater reservoirs and rainwater reservoirs are essential water containment structures for every industry today. Their main function is to collect and contain the contaminated or adulterated surface water which generally otherwise surface runoff in natural streams and ponds and further when recharged, contaminate ground water.

Challenges in Pondliner and Industry practices: Pondliner is affected by weathering and wear tear on project sites. It is exposed to UV and ozone gases and many liquid contaminations from alkalis and acids. The current Pondliner methodology for site installation is multilayer sequence which keep membrane exposed to wear and tear conditions many a times. These membranes are laid on site with a layer of geotextile as cushion under it and further protected by one more layer of geotextile on top before starting any subsequent activity. The actual pond lining membrane is susceptible for damage on site as it is laid and tested independently. Any damages to these membranes result in leaking reservoirs, thus defeat their purpose and further contaminate the environment.

KRUBBER' Innovative solution:

To encounter this challenges in current multilayers pond lining systems KRUBBER Pvt Ltd. has developed **KRUBBER® COMPOSITE POND LINING GEOMEMBRANE** which is robust, elastic, durable, highly stable and long-lasting composite geomembrane made of Elastomeric Terpolymer, designed and installed to hold water and liquid effectively.

KRUBBER® COMPOSITE POND LINING GEOMEMBRANE has an Elastomeric Terpolymer core in centre, sandwiched and factory fused between two layers of geotextile fleece on either sides. Elastomeric Terpolymer core is watertight barrier whereas fleece provides permanent protection to the inner Elastomeric Terpolymer core and can be fully bonded to the to any structure permanently. The composite membrane also provides high frictional resistance to high angle of reposes in soil.



KRUBBER Pondliner exhibits excellent properties subjected to various aggressive conditions during project execution and throughout its service life.

KRUBBER Pondliner is robust and tough against wear and tear.

It is highly elastomeric for better elongation and exhibits excellent dimensional stability too.

It has excellent resistance to aggressive soils with harsh ground water conditions on which it is laid.

Composite single layer installation results in faster completion of projects.

Composite effect also provides effective installation on high reposes in soil further provides good frictional resistance to subsequent layers such as rip rap or screeds.

Its unique terpolymer formulation yields good service life to the reservoir and ponds with excellent resistance to UV, Ozone, acids and alkalis.

Compliance with Performance standards and Holiday Detection Testing

KRUBBER® COMPOSITE POND LINING GEOMEMBRANE confirms to the material specification under Performance standard **ASTM D7465** and **ASTM D4637**.

Installed Krubber Pondliner is tested by Holiday detection test confirming to ASTM D8231-19

KRUBBER composite Pondliner is highly recommended for Reservoirs, Canals, Artificial ponds, Tailing Ponds, Sewage and effluents ponds, Wastewater ponds, Dam Upstream, Aqueducts.



KRUBBER PRIVATE LIMITED

Office: 135, Shiv Krupa Industrial Estate, Opp. Raj Legacy, LBS Road, Vikhroli West, Mumbai - 400 083, India.

Email: info@krubber.co

Phone: +91 (22) 4263 7400

Website: www.krubber.co

KRUBBER PRIVATE LIMITED

Factory: GUT NO. 290, 297, Kondhale Village, Wada, Thane, Maharashtra - 421303