

HDPE GEOMEMBRANE

INSTALLATION GUIDE

Installation (lining) of HDPE Geomembrane starts from preparing the site. One of the most Important steps in protecting a liner is correct site preparation. Insufficient effort in this area will most likely cause short-term and long-term problems with the geomembrane liners performance.



SITE PREPARATION

1. The surface of the pond needs to be smooth and free of sharp stones and rocks.
2. Compacting existing subgrade materials and correcting any existing erosion damage will provide a good surface. Chunks of clay or dirt should be levelled or removed.
3. Material such as crushed rocks is not acceptable for the surface of the liner since foot traffic on top of the geomembrane liner may cause punctures due to the sharp subgrade materials.
4. Superficial compaction should be done. The slopes should be carefully compacted.
5. Vegetation removal is also important. Dry weed stalks or brushes become brittle when broken, can act as ideal sources for punctures.
6. If there is water on the pond, All the water should be drained from the pond prior to liner installation, and the site should be allowed to dry.
7. Depending on the project and the site location, the support layer should be placed to protect the geomembrane (geotextiles or related products, sand, soil, etc.).
8. An anchor trench is normally used to secure the perimeter edge of the liner.
9. Bags filled with mud or sand shall be used to temporarily hold the geomembrane liner in position and prevent uplifting from the wind during lining.



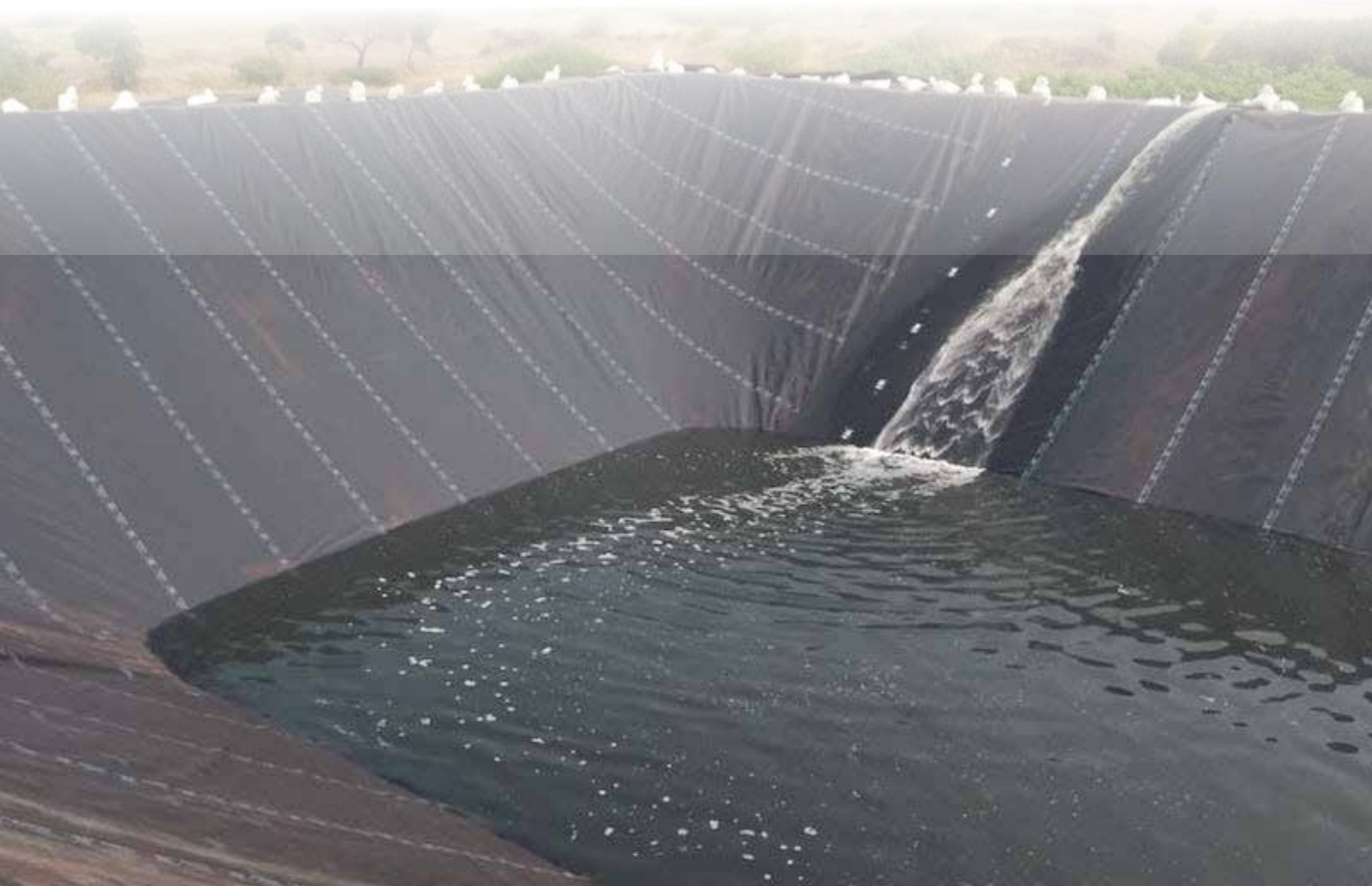
INSTALLATION

1. During handling and laying, protect geomembranes from mechanical damage, excessive mud & debris.
2. After placing and laying geomembrane liners in the pond, jointing of two overlapped liners should be done by experienced technicians.
3. The hot air single fusions technology is used for welding the HDPE geomembrane liner.
4. We recommended Swiss make Leister TWINNYT combi-wedge welder or Heat Gun for smooth and perfect HDPE geomembrane liner welding.
5. The minimum overlap joint width should be 50mm to 70mm.
6. Jointing shall be performed under the direction of our installer, who shall remain onsite and be responsible throughout the liner.
7. At last perimeter of the geomembrane should be anchored in the trench appropriately to forestall slippage of the liner. The anchor trench should have slightly rounded corners to avoid sharp bends in the geomembrane. Standard anchor trench excavation is 1 5' wide x1 5 deep.



INSPECTION

When the installation part's done, our Installer/Supervisor will thoroughly inspect all joints and the entire pond liner, and once he gives the green signal, we are ready to pass the water into the pond.



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