



HIPPOSHIELD pond liners from Chemco are multi layered reinforced coated woven fabrics, which are specially designed products for water resource management in the agriculture and aquaculture industry towards applications like water harvesting, containment, ground water storage, retention ponds and shrimp farming.

Our HIPPOSHIELD pond liners are made with exclusive high density polyethylene coatings for maximum toughness and abrasion resistance.



ADVANTAGES

- Certified by the Bureau of Indian Standard under the code of IS 15351:2015
- Largest width fabricated panels in the pond liners industry
- **Available in 12 feet width and can be factory fabricated and transported to the work site**
- Extra strong to provide added resistance to tears & punctures
- Engineered coatings provide exceptional hydrostatic resistance and heat seaming resistance
- Technologically designed for UV resistance
- Pond liners comes with 5 years limited warranty
- On site installation with most advanced machinery
- Accepted and approved in all government subsidy schemes

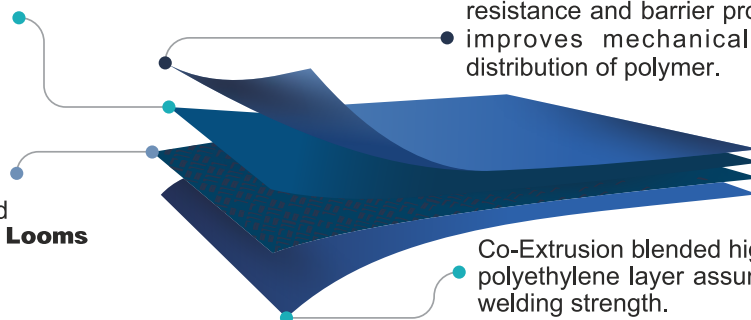


STRUCTURE

Blend of high bonding strength polyethylene polymer for best in class bonding strength between scrim and film.

High strength reinforced woven HDPE fabric made with best in class lowest shrinkage HDPE tapes weaved on value engineered **Swiss make Sulzer Flat Looms** to achieve required flatness.

Our in-house German **Reifenhauser** multi layered ultra thin film technology offers excellent hydrostatic resistance and barrier properties. This superior film improves mechanical properties and even distribution of polymer.



Co-Extrusion blended high sealing strength bottom polyethylene layer assuring best in class sealing / welding strength.

FOLLOWING ARE THE GUIDELINES TO BUILD A STRONG AND A LONG LASTING POND

1. LAND SELECTION

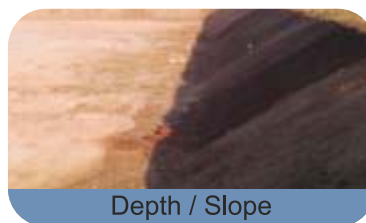
- The soil should be flat and soft.
- The land should be rectangular or square in shape.
- The ground water level should be low enough, so that water does not rise from the ground during excavation even after heavy rains.
- After proper selection of land, excavation should be started.



Flat and soft land

2. EXCAVATION

- Use poclair machine for excavation.
- Excavated soil should be used for slope of the field.
- Remove all stones in the field and all elements that will damage the pond liner.
- Angle of the slope should be 120 degree or more.



Depth / Slope



Compaction

3. HOW TO LAY HIPPOSHIELD POND LINER

- Make a cushioning layer of about 1.5 ft to 2 ft height with soft soil on the base & slopes of the excavated pond. Spray water on it so that soil does not loosen up.
- Use poclair or roller to compact the soil. Remove all stones or sharp objects or tree roots which can damage the pond liner.
- Open the HIPPOSHIELD fabric roll properly and spread it out according to the size of the pond.
- Use skilled operators while laying down HIPPOSHIELD liner and make sure that the fabric is not damaged during the process.
- Advanced hot gun technology machinery should be used after laying the pond liner for seaming.
- Installation should be done by company authorized or approved channel partner personnel.
- Check the sealing in one meter increments.
- Upon completion of the activity, the entire farm should be checked by an authorized technical engineer of the company and then the service quality report should get signed.
- During filling water, the soil & pond liner both will get compressed & stretched. To avoid damage to the liner release slowly the excess fabric from the edges of the pond to relieve the stress.
- Anchoring of all excess fabric should be done on all the edges of the pond.

4. HOW TO PROTECT HIPPOSHIELD FABRIC

- After the completion of fabric laying activity, fencing should be done of strong and durable metal on all sides of the farm to take care of the animal and other elements. The height of the fence should be at least six feet.
- The slope on the outside of the field should be paved with sand or gravel, so that soil of the slope is not carried away in case of heavy rains.
- Make strong steps to climb the slope on the outside of the field and use rough surface material patch on one of the slope from inside so that animal or person can come out of the pond if they fall accidentally.
- Care should be taken while filling the pond with water by controlling the flow rate of water.
- Double or triple layered fabric should be placed under the water filling pipe so that the it does not damage the fabric.

5. CARE WHILE FILLING THE WATER

- Fill the pond gradually with water.
- The water filling pipe should be placed up to the back of the embankment.
- The tip of the pipe should not extend too far into the pond.
- Tie tubes / bags / sacks to the mouth of the pipe so that the water falling in the pond does not fall on the slope with strong force.
- Care should be taken that the soft soil on the embankment does not slide down.



TECHNICAL SPECIFICATION

SR. NO.	TEST NAME	TEST METHOD	UMO	HIPPOSHIELD 300	HIPPOSHIELD 500	HIPPOSHIELD 750	HIPPOSHIELD 1000
1	Thickness	IS 7016 Part 1	Micron	300	500	750	1000
2	Finished Weight	IS 7016 Part 1	GSM	250	420	650	950
3	Carbon Black Content	IS 2530	%	2.5	2.5	2.5	2.5
4	Breaking Strength on (20x10CM) before UV exposure	IS 13162 Part 5	N	3300	6600	8200	10700
5	Elongation at Break on (20x10CM) before UV exposure	IS 13162 Part 5	%	20±5	20±5	20±5	20±5
6	Dart Impact test	Annex C, IS 15351:2015	GSM	Pass	Pass	Pass	Pass
7	Tongue Tear Strength	IS 7016 Part 3	N	100	250	300	350
8	Puncture Resistance	Annex D, IS 15351:2015	N	300	500	725	900
9	Brushing Strength	IS 7016 Part 6	N/CM ²	60	110	135	200
10	Seam strength before UV exposure	IS 15080	N/MM	15	30	40	42
11	Hydrostatic Resistance before UV exposure	Annex E, IS 15351:2015	KG/CM ²	No Leakage at 10kg/cm ²	No Leakage at 15kg/cm ²	No Leakage at 20kg/cm ²	No Leakage at 25kg/cm ²

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