WESTIND
Resin Surfaced
Concrete Shuttering Plywood

TOUGH DURABLE ECONOMICAL
Resin Surfaced Concrete Shuttering Plywood

As one attempts to reduce costs in building construction it is evident that shuttering boards for casting concrete is one area where considerable savings can be made. This area of economy can be safely exploited by using Westind Resin Surfaced Concrete Shuttering Plywood instead of natural softwoods and costly steel plates.

Westind Resin Surfaced Concrete Shuttering Plywood is a revolutionary product from the makers of world class plywood and hancards - The Western India Plywoods Ltd.

Manufacture:

Westind Resin Surfaced Concrete Shuttering Plywood is Boiling Water Proof Plywood coated with a special grade phenolic resin.

Westind Resin Surfaced Concrete Shuttering Plywood is bonded with specially formulated high grade phenol formaldehyde resin under controlled conditions of temperature, pressure and pressing time to ensure flawless bonding. Selected species of hard wood are used to ascertain structural stability. In addition to these, specified preservatives are used to treat the plywood to make it free from attack by organisms like termites, rot, fungus and wood boring insects.

The selected species of hard wood, the preservatives, the specially formulated phenol formaldehyde and special grade phenolic resin for surface coating that run into the production of Westind Resin Surfaced Concrete Shuttering Plywood make it conform to IS: 4990.

1. Durability

Westind Resin Surfaced Concrete Shuttering Plywood manufactured using superior quality raw materials, is highly durable. It has the ability to withstand a minimum of 60 repeated shuttering applications with appropriate handling. It is highly resistant to water, alkaline acids, alkalis, ordinary solvents and extreme environmental conditions. The phenolic coating is very tough and continuous, so as a result, the chances of water seeping into the plywood are virtually non-existent. This in effect enhances the durability of Westind Resin Surfaced Concrete Shuttering Plywood.

2. Smooth Surface

The phenolic resin finish of Westind Resin Concrete Shuttering Plywood is superior to all other wood based shuttering materials with or without plastic coatings. Its superior surface finish imparts an easily trowel finish to the concrete and thus in turn enables the user to avoid the tedious, time consuming and expensive plastering operation. Its superior finish totally eliminates the problem of the concrete sticking to the shuttering material at the time of removal.

3. Dimensional Stability

The expansion and contraction of Westind Resin Surfaced Concrete Shuttering Plywood is negligible and therefore provides uninterrupted concrete surfaces without ridges in length or width.

4. Economy in Fixing Cost

Westind Resin Surfaced Concrete Shuttering Plywood possesses high strength to weight ratio and good coverage thereby contributing in:

1) Economy on supports and frames.
2) Economy in site labour and time.

Further more, it can be easily sawn, drilled and nailed with conventional wood tools thereby avoiding tedious site operations.

5. Strength

Westind Resin Surfaced Concrete Shuttering Plywood is free of warping and has very good structural strength. Owing to its cross grain structure, it possesses very high impact strength.

6. Thermal barrier

Westind Resin Surfaced Concrete Shuttering Plywood is an excellent thermal barrier and this protects the concrete from thermal shocks during the curing and setting cycles and provides optimum setting conditions.

7. Design Flexibility

Phenolic surface coating contributes extra design flexibility to Westind Resin Surfaced Concrete Shuttering Plywood, can be bent to various forms, shapes and moulds without structural damage.

8. Salvage value

Even after repeated concrete shuttering applications, the reddish brown phenolic surface finish of Westind Resin Surfaced Concrete Shuttering Plywood will be retained and the same can be used for partitions, site office furniture, protective barriers, cupboards and other temporary structures.
Working Radius of Curvature

When dry, the following are the approximate minimum bending radius of Westind Resin Surfaced Concrete Shuttering Plywood.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Across the grain of the outer ply</th>
<th>Parallel to the grain of outer ply</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm. (1/4&quot;)</td>
<td>97 cm</td>
<td>128 cm</td>
</tr>
<tr>
<td>9 mm. (3/8&quot;)</td>
<td>178 cm</td>
<td>227 cm</td>
</tr>
<tr>
<td>12 mm. (1/2&quot;)</td>
<td>270 cm</td>
<td>345 cm</td>
</tr>
</tbody>
</table>

Thickness of Solid Timber planks | Equivalent thickness of Westind Resin Surfaced Concrete Shuttering Plywood

- 12-15 mm  | 6 mm
- 25-30 mm  | 9 mm
- 35-40 mm  | 12 mm

Westind Resin Surfaced Concrete Shuttering Plywood

- Saves on transportation cost.
- Saves on fixing costs.
- Saves on hardware cost.
- Saves on supporting poles/scaffolding.
- Saves on repolishing and finishing costs.
- Saves on labour.

Westind Resin Surfaced Concrete Shuttering Plywood Vs. Steel Plates

Westind Resin Surfaced Concrete Shuttering Plywood

- Being of lighter weight it facilitates economically viable speeding up of construction activities and minimises expenditure on supports, frames and handling and accidents.
- Being free of dents, it imparts an evenly fine finish to the concrete.
- Being cheaper, it slashes the initial investments cost.
- It is easily machineable and thereby eliminates tedious fixing operations.

In brief, Westind Resin Surfaced Concrete Shuttering Plywood is superior in every aspect compared to Steel Shuttering Plates.

<table>
<thead>
<tr>
<th>Standard Size</th>
<th>Standard Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>241 cm X 122 cm</td>
<td>6 mm, 9mm, 12 mm, 15 mm, 18mm</td>
</tr>
</tbody>
</table>
Tips to Boost Durability

After 3 to 4 uses, and especially when Westind Resin Surfaced Concrete Shuttering Plywood has been stored for a long time, it should be coated with heavy mineral oil (used engine / transformer oil may be used) before its next use, in order to enhance durability.

After each use:....

1. Stack flat on dry level platforms using stickers to permit drying.
2. Long-term storage should be indoors (tarps and covers may prevent proper air circulation and cause moisture to collect.)
3. Use wooden wedges rather than pinch bars in stripping.
4. Lower carefully from high places. Do not drop on edges or permit careless handling.
5. Clean panels thoroughly after each use.
6. Don’t swab on too much oil; just enough so that panel surfaces feel greasy to the touch.
7. For longer life, all newly cut edges should be sealed with white lead oil or other effective sealers.

Other Applications:

Westind Resin Concrete Surfaced Concrete Shuttering Plywood with its pleasing reddish brown phenolic finish eliminates the need to paint and has proven its mettle in matching the elegance of interiors especially wall panelling and furniture.

Westind Resin Surfaced Concrete Shuttering Plywood gives extra touch of finish and durability for panel doors, specifically for bathrooms and other applications where water resistance requirements are very high.

In addition to these, it is being extensively used for constructing structures like barracks, milk booths, bus shelters, tourist cottages and temporary exhibition stalls and for other allied applications.

For further details and requirements, write to:

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