



OUTDOORS - TO PLYWOOD ROOF BACKING

APPLICATION GUIDELINES FOR APPLICATION OF WATERBLOK MULTI-PURPOSE WITH GEOTEXTILE REINFORCEMENT TO PLYWOOD ROOF BACKING

Mixing of Material

The pail of Waterblok Multi-Purpose must be stirred well until totally smooth and all solids dissolved. It must resemble a smooth chocolate-like paste. Water is already added to the pail in the factory so there is no need to add any water. However, should the compound be too solid a small quantity of water (not exceeding 1 liter) can be added but this is rarely necessary.

Geotextile to be Used

A 105gsm (grams per square meter) non-woven polyester needle punched geotextile must be used where a flashing is installed, a plywood joint sealed and for all other detail work.

Surface Preparation

Remove all irregularities and loose sections from plywood. If any of this will come loose at a later stage the waterproofing will come loose with it and create a breach which could lead to leaks.

Make sure that plywood joints are flush.

Thoroughly clean the area to be waterproofed and ensure that all dirt, moss, dust and all other foreign matter are removed and the area is totally clean. It is sometimes a good idea to wash the area with water (no detergents added) after cleaning leaving the substrate moist prior to application of primer. If there is any dirt or dust on the substrate, the waterproofing will adhere to the dust or dirt and not penetrate the substrate to ensure proper adhesion. This could lead to waterproofing failure at a later stage.

Plywood Joints

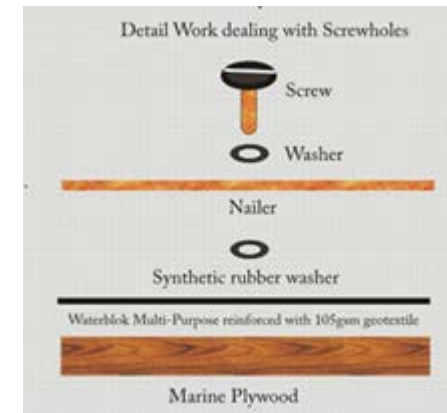
1. Cut a strip(s) of 300mm width geotextile sufficient to cover the entire length of the joints.
2. Apply primer (same as above) at 400mm width over the plywood joints in the same manner as outlined above over the entire join section. Allow to dry for 2 hours.
3. Apply a thick full strength (pure) coat of Waterblok Multi-Purpose at 400mm width over joints (do it a small section at a time as the Waterblok Multi-Purpose dries quickly) and immediately embed the geotextile over the join (**furry side down**) allowing 50mm play on each side. Embedding is done by pressing down firmly with the hands and stroking firmly removing all creases and ensuring firm embedding at all edges. The black of the Waterblok Multi-Purpose must come through the geotextile.
4. Immediately apply a saturation coat of Waterblok Multi-Purpose (70%) and water (30%) mix over the embedded area as indicated in the previous section ensuring that the geotextile is fully saturated. Allow to dry for 4 to 6 hours before applying any further coats.

5. Proceed with the embedding section by section until all the joints (vertically and horizontally) are sealed and covered. Where joints in the geotextile is necessary allow a 100mm (4 inch) overlap. Apply a thick coat of Waterblok Multi-Purpose on the geotextile section to be overlapped and joined (spanning at least 125mm (5 inches) over the length of the join section of the geotextile and at a width of 400mm) and immediately embed the overlapping section (**furry side down**) in that geotextile section. Then proceed with the application as set out and outlined above.
6. Apply an undiluted coat of Waterblok Multi-Purpose over the entire join section at a width of 400mm and allow to dry for 4 hours.
7. Apply another undiluted coat of Waterblok Multi-Purpose over the join section and allow to dry for 2 to 4 hours.

Nailer Rods

If roofing shingles or tiles attached to nailer rods will be installed on the plywood backing one of the following two procedures is to be followed:

1. Nail the nailer rods to the plywood backing and cover with a strip of geotextile embedded in Waterblok Multi-Purpose extending at least 50mm each side of the nailer rod. using the same methodology as described under the heading Plywood Joints; or
2. After application of the waterproofing and the drilling of the screw holes, a synthetic rubber washer (tightly fitting the screw) is placed over the hole on the Waterblok Multi-Purpose reinforced application after which the nailer is put in place (again with a washer on the top) and screwed into place. The drawing below graphically illustrates this:
- 3.



Priming the entire area

Prime the entire plywood roof (except the areas where application has already been made) (ensure that it is 100% clean) with a 50/50 mix of Waterblok Multi-Purpose and clean water. Allow the primer to dry for 2 to 4 hours (longer if needed until it turns totally black).

Application to Plywood Roof

Apply one (1) to two (2) coats of undiluted Waterblok Multi-Purpose over entire roof section. If one coat ensure that all join sections are also applied, if two, it is not necessary to apply the second coat over the join areas. Allow to dry 2 to 4 hours between coats.

Curing

Allow waterproofing to cure for a minimum of 72 hours (or as advised). **ENSURE THAT NO ONE HAS ACCESS TO THE WATERPROOFED AREA AND THAT NO DAMAGE OCCURS.**

Hints & Tips

- If it rains during the application and curing period ensure that all ponded water is removed when the rain stops. This will limit wash-out.
- If rain is imminent, stop working.
- During application make sure that the applicator has a small pail of water to dip the brush in from time to time to prevent clogging of the brush.

When work stops clean the brushes in water and leave it in the water till used again. This will lengthen the lifespan of the brushes as well as ensures good application.