

Cover It Application Guide

Features and Benefits

Cover It is the new GRP system that features enhanced performance compared to traditional fibreglass systems, including:

- Rain-resistant during application if installation is halted due to rainfall, the system • will still cure through without the need to strip off un-cured Base Resins
- Flexible technology much more resistant to cracks and splits then standard rigid ٠ **GRP** systems
- Easy repairs and alterations no need to grind back Top Coat to reveal Base Resin coat should any repairs or alterations be required.
- Superior adhesion excellent inter-coat and trim adhesion to greatly reduce the risk of flaking / delamination

Components Check List

Before you start, check that you have all the items you need. If in doubt consult your Cover It distributor.

Deck / Substrate and Fixings

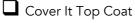


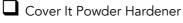
- Treated timber battens (for rigidity to edge trims)
- Fixings for OSB TG4 deck (ring shank nails, sheradised or plated woodscrews (min 75mm)
- Fixings for trims (18mm galvanised clout nails)

Main System Components

Cover

	Cover	lt	Base	Resin
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Trims

- Cover It 450g/m² chopped strand fibreglass mat reinforcement
- Taping mat (for trim joints and other details)



Additional Components

Golvent resistant medium pile rol	lers
Paddle roller	
Stirrer	
Paddle roller	
Application brushes (for difficult	o reach areas)
Calibrated buckets (for measuring	g Base Resin and Top Coat quantities and mixing in catalyst)
Protective equipment (latex glove	es, respiratory/dust mask and safety goggles)
Medium grit sand paper	
Cloths / rags	
Additional Components	
Acetone	
MS Polymer adhesive, such as So trims).	oudal Fix All (High Tack) adhesive or equivalent (for bonding
Anti-slip finish media (for balcony	applications)

Suitable Application Conditions

Cover It should be applied in dry conditions between $5^{\circ}C^{*}$ and $30^{\circ}C$ ambient air temperature. Do not begin if conditions could fall outside of the temperature range of if rain appears likely.





Cover It Base Resin

Coverage Rates and Quantities

Cover It Base Resin is applied at a coverage rate of 1.2 Kg/m² (1.0 Litre/m²) when using 450g/m² fibreglass mat reinforcement.

NB: The coverage rate is 1.6 Kg/m² (1.33 Litre/m²) when using $600g/m^2$ fibreglass mat.

IMPORTANT – Using too much Base Resin is detrimental to the system. Always make sure you use the right amount.

Table 1.1 overleaf shows the quantity of Base Resin required for typical roof area sizes

Roof Area	Amount of Base Resin required for Main Laminate when using 450g/m ² mat		Amount of Base Resin required for Main Laminate when using 600g/m ² mat	
	Approx. Weight	Volume	Approx. Weight	Volume
5 m ²	6.0 kg	5.0 ltrs	8.0 kg	6.6 ltrs
10 m ²	12.0 kg	10.0 ltrs	16.0 kg	13.3 ltrs
15 m ²	18.0 kg	15.0 ltrs	24.0 kg	20.0 ltrs
20 m ²	24.0 kg	20.0 ltrs	32.0 kg	26.6 ltrs
25 m ²	30.0 kg	25.0 ltrs	40.0 kg	33.3 ltrs
30 m ²	36.0 kg	30.0 ltrs	48.0 kg	40.0 ltrs
40 m ²	48.0 kg	40.0 ltrs	64.0 kg	53.2 ltrs
50 m ²	60.0 kg	50.0 ltrs	80.0 kg	66.5 ltrs
70 m ²	84.0 kg	70.0 ltrs	112.0 kg	93.0 ltrs
100 m ²	120.0 kg	100.0 ltrs	160.0 kg	133.0 ltrs

NB - It is recommended that an additional 10% material is included in order to cover wastage during application.





Powder Hardener Levels

Cover It Base Resin requires powder hardener at a **minimum of 2%** and a **maximum of 4%** depending on temperature. To ensure that the curing process is not impeded:

- Never use less than 2% even in hot conditions. Cover It Summer Inhibitors are available to extend pot life and cure times in hot conditions.
- Never use more than 4% even in cold conditions. Cover It Winter Accelerators are available to decrease pot life and cure times in cold conditions.

The table below provides recommended powder hardener addition rates depending on Cover It Base Resin quantities and temperature ranges. Powder hardener is added to Cover It Base Resin in the form of scoops using the scoop provided.

IMPORTANT – The temperature ranges shown are to be used as a guide to the amount of powder hardener to use. Always test the pot life in the prevailing conditions by performing a test mix at the suggested powder hardener level before you start application. Adjust powder hardener levels up or down as required to gain the pot life you require. Remember it is always possible to use intermediate levels (e.g. 2.5%) to gain close control of the pot life.

It is not recommended to catalyse more than ~10 kg at a time. When working large areas decant the Base Resin into manageable quantities and always be aware of your pot life.

Hardener A	nded Powder ddition Rate: ature Range:	4% 5 - 10°C	3% 11 - 17°C	2% 18 - 30°C
	Cover It Base sin Weight	Number of Hardener Scoops	Number of Hardener Scoops	Number of Hardener Scoops
1.0 ltr	1.2 kg	4	3	2
2.0 ltr	2.3 kg	8	6	4
3.0 ltr	3.5 kg	12	9	6
4.0 ltr	4.6 kg	16	12	8
5.0 ltr	5.8 kg	20	15	10
6.0 ltr	6.9 kg	24	18	12
7.0 ltr	8.1 kg	28	21	14
8.0 ltr	9.2 kg	32	24	16
9.0 ltr	10.4 kg	36	27	18
10.0 ltr	11.5 kg	40	30	20





Cover It Base Resin Application Instructions

- 1. Cover It is always applied to an OSB3 deck. The application instructions that follow are based on applying to a fully trimmed-out roof, with trim jointing and other localised detailing work having been carried out. For instructions, please refer to other Cover It Roofing System Application Manuals that cover these stages.
- 2. Brush all loose debris from roof substrate. Check roof is clean, dry and no fixings protrude.
- 3. Check all boards and trim joints have been taped and feathered where necessary.
- **4.** Stir the Base Resin thoroughly in the original container mixing from top to bottom until a uniform colour and haze is present.
- 5. Pour the calculated amount of Base Resin into calibrated bucket / suitable container on weighing scales and replace lid on Base Resin can to prevent contamination or unnecessary losses to atmosphere. Do not attempt to mix more than 10 Kg / 8.5 litres at one time, and during the hot summer months this should be considerably reduced (see Table 1.1 on page 15 for quantity guidance).
- 6. Scoop in the correct amount of powder hardener direct into the measured-out Base Resin and mix thoroughly for a minimum of 2 minutes to ensure the hardener dissolves.

and suitable rubber gloves). Read the full safety information before starting.

- 7. Apply Cover It Base Resin using a Cover It medium pile solvent-resistant roller, working the Base Resin evenly over the substrate to be matted at this point. Ensure that the Base Resin is also worked into all OSB3 TG4 joints. Do not pour from bucket (this will create Base Resin rich areas), rather dip the roller and spread for the most even coverage. Take care to work methodically and avoid standing in wet Base Resin.
- 8. Place the matting onto the Base Resin wetted boards, allowing for 50mm overlaps onto the trims. Ensure the mat is correctly orientated so the straight cut edge is overlapped by the feathered edge of the next strip. All fixings must be covered with mat.
- 9. Apply a further light coat of Base Resin (wet on wet) using the roller. Do not apply too much Base Resin at this stage it is unnecessary and may result in a weaker roof membrane if over-applied. Allow a little time for the Base Resin to impregnate the mat before deciding whether more is needed (only where voids or prominent fibre can be seen or mat does not become transparent within a few minutes).
- 10. Work the Base Resin into the mat using the metal paddle roller, allowing it to spread and soak thoroughly. Allow plenty of time for this operation. The mat will soak up the Base Resin and turn from white to translucent. Consolidate well and roll out all air bubbles with metal paddle roller. Avoid rolling too vigorously as this will create unnecessary splashes with wasted material and risk of contaminating nearby areas.





Note: Pinholes, which are small "pock marks" on the surface of the finished roof, are not always caused by a lack of Top Coat, rather a lack of Base Resin or insufficient paddle rolling resulting in trapped air. More efficient use of the paddle roller will help to eliminate pinholes by highlighting bare and unsaturated areas.

- **11.** Inspect thoroughly and if there appear to be any areas with insufficient Base Resin (voids, prominent fibres or spots remaining white) apply a little extra and repeat 9.
- 12. Carry on with the next piece of the fibreglass mat repeating the steps above, using 50mm overlaps ensuring the feathered edge is correctly orientated, until the roof is completely covered. Check as you go for complete fibre wet-out and prominent fibres. Curing time is normally between 30 and 120 minutes, dependent upon temperature and catalyst levels. When properly cured it should be virtually tack-free it should not be easy to dislodge glass strands from the laminate surface.

Accurate measuring of the immediate working area, appropriate Base Resin quantities and uniform application will ensure the correct Base Resin to mat ratio. When adequately cured to progress to the next stage.

Inspection of Base Resin

Footwear must be thoroughly clean and dry, or Base Resin coat will be contaminated and the Top Coat will not fully adhere. Look for imperfections and fibre prominent areas to which a further thin application of base should be applied.

Prominent strands can be touch-sanded using sand paper. For any defective Base Resin, where necessary cut out the faulty areas and relay the Base Resin and matting – overlapping by 50mm in all directions (repairs are easier at this stage than later). When making the repair, tear a patch from the fibreglass matting to create a feather edge on all sides (this will make the repair less visible). The patch will bond to the main mat to form a joint-free surface.

What to do if Rain Stops Work

If the Base Resin has been laid and it rains on the roof during the curing process the following should be carried out within 7 days. After that it may be necessary to reapply the full base laminate (consult Cover It Technical Services for further details)

- Dry the area using a blower or cloths. IMPORTANT Never use an open flame to dry the roof.
- Sand down any wicks or rough areas as normal
- Thoroughly wipe the roof with acetone and allow to flash off (this is important as it takes the last of the moisture off that may be in the mat fibres/texture of the roof)
- Apply the Top Coat as normal (if the rain has pitted or textured the roof then a bit of extra working may be required with the Top Coat to get an even coverage)





Cover It Top Coat

Ensuring the Base Resin is Cured

The Base Resin must be adequately cured before applying the Top Coat. Depending on application conditions and catalyst levels this should be between 30 and 120 minutes (but may be longer in very cold conditions).

To check if it is cured enough to apply the Top Coat, using a gloved finger apply light pressure to the Base Resin coat – if the fibres within the matting are set and not easily disturbed then preparation for Top Coat can begin. Important – The second coat should be applied as soon as possible, there is a maximum over coating time of up to 7 days. After this period cleaning with acetone will be required which will allow another 7 days over coating time. If left for longer than 14 days consult your distributor for advice.

Coverage Rates & Quantities

Cover It Top Coat is applied at a coverage rate of 0.66 Kg/m² (0.5 Litre/m²). Please refer to Table 2.1 below for quantity of Top Coat required for typical roof area sizes. IMPORTANT – Accuracy with coverage rates is essential. Do not apply the Top Coat too thickly or it may crack or too thinly as it may not cure and will not give full waterproof protection. IMPORTANT – Using too much Base Resin is detrimental to the system. Always make sure you use the right amount. NB - It is recommended that an additional 10% material is included in order to cover wastage during application.

Roof Area	Amount of Top Coat Required			
ROOI Area	Approx. Weight	Volume		
5 m ²	3.3 kg	2.5 ltrs		
10 m ²	6.6 kg	5.0 ltrs		
15 m ²	9.9 kg	7.5 ltrs		
20 m ²	13.2 kg	10.0 ltrs		
25 m ²	16.5 kg	12.5 ltrs		
30 m ²	19.8 kg	15.0 ltrs		
40 m ²	26.4 kg	20.0 ltrs		
50 m ²	33.0 kg	25.0 ltrs		
70 m ²	46.2 kg	35.0 ltrs		
100 m ²	66.0 kg	50.0 ltrs		





Powder Hardener Levels

Cover It Top Coat requires powder hardener at a **minimum of 2%** and a **maximum of 4%** depending on temperature. To ensure that the curing process is not impeded:

- Never use less than 2% even in hot conditions. Cover It Summer Inhibitors are available to extend pot life and cure times in hot conditions.
- Never use more than 4% even in cold conditions. Cover It Winter Accelerators are available to decrease pot life and cure times in cold conditions.

The table below provides recommended powder hardener addition rates depending on Cover It Top Coat quantities and temperature ranges. Powder hardener is added to Cover It Base Resin in the form of scoops using the scoop provided.

IMPORTANT – The temperature ranges shown are to be used as a guide to the amount of powder hardener to use. Always test the pot life in the prevailing conditions by performing a test mix at the suggested powder hardener level before you start application. Adjust powder hardener levels up or down as required to gain the pot life you require. Remember it is always possible to use intermediate levels (e.g. 2.5%) to gain close control of the pot life.

It is not recommended to catalyse more than ~10 kg at a time. When working large areas decant the Base Resin into manageable quantities and always be aware of your pot life.

Recommended Powder Hardener Addition Rate:		4%	3%	2%
Temper	Temperature Range:		11 - 17°C	18 - 30°C
Amount of Cover It Top Coat Volume Weight		Number of Hardener Scoops	Number of Hardener Scoops	Number of Hardener Scoops
1.0 ltr	1.3 kg	4	3	2
2.0 ltr	2.6 kg	8	6	4
3.0 ltr	4.0 kg	12	9	6
4.0 ltr	5.3 kg	16	12	8
5.0 ltr	6.6 kg	20	15	10
6.0 ltr	7.9 kg	24	18	12
7.0 ltr	9.2 kg	28	21	14
8.0 ltr	10.6 kg	32	24	16
9.0 ltr	11.9 kg	36	27	18
10.0 ltr	13.2 kg	40	30	20





Cover It Top Coat Application Instructions

- 1. Mix the Top Coat thoroughly in the original container.
- 2. Pour correct amount of Top Coat into calibrated bucket / suitable container on weighing scales and replace lid on Base Resin can. NB Top Coat is applied over the whole roof area including edge trims and wall fillets so consider this when decanting.
- **3.** Catalyse the Top Coat as per the Powder Hardener Addition Rate guidance. IMPORTANT Stir thoroughly for a minimum of 2 minutes until all the powder hardener has dissolved.
- **4.** The trims are coated first when applying Base Resin to trims use suitable protection to catch any drips and splashes, such as a trim off-cut.
- 5. Whilst the Top Coat on the trims is still wet, the flat area of the roof can then be seamlessly completed using the roller to transfer the coloured Top Coat from the mixing bucket.
- 6. A variety of different anti-slip finishes can be achieved if required. Slate granules can be spread over curing Top Coat to create the appearance of a mineral finish. Alternatively, a small amount of bauxite grit or other suitable anti-slip media can be broadcast in to the Top Coat whilst wet at an appropriate rate, then lightly rolled over with finishing roller to create a coloured anti-slip effect.

It is recommended that trims should not be coated with anti-slip finish as this would mar the overall appearance and masking tape should be used to create a neat finish.

Final Inspection

Thoroughly check roof surface for colour evenness and look for any signs of 'pin holing' or irregularity. Any substandard areas should be reworked (see repairs section for procedure). Ensure that no Cover It Base Resin has dripped from the fascia trims onto fascia boards.

Note: Pinholes are not always caused by a lack of Top Coat, rather a lack of Base Resin applied or insufficient paddle rolling during Base Resin application resulting in trapped air. More efficient use of the paddle roller will help to eliminate pinholes by highlighting bare and unsaturated areas.





What to do if Rain Stops Work

If the Top Coat has been laid and it rains on the roof during the curing process the following should be carried out within 7 days. After that it may be necessary to reapply the full base laminate (consult Cover It Technical Services for further details)

- 1. Dry the area using a blower or cloths. IMPORTANT Never use an open flame to dry the roof.
- 2. Check the cured roof area for any rain damage
- 3. If the rain effect has been minor (light drizzle for example) and any damage is just aesthetic, then the roof may be ok to leave.
- 4. If the rain has pitted and damaged the finished & cured roof area then thoroughly acetone wipe the roof and allow the acetone to flash off.
- 5. Re-apply the Top Coat over the affected area (if the rain has pitted or textured the roof then a bit of extra working may be required with the Top Coat to get an even coverage)

