

REBOUND ACE® AIR CUSHION

APPLICATION PROCEDURE

This procedure is applicable to **Rebound Ace® Air Cushion** using **Rebound Air Cushion Mat NG- 7mm**.

PREPARATION

Thoroughly clean or vacuum court surface before application, remove any dirt, stones, dust. Surface must be dry.

MAT INSTALLATION

1. Position **Rebound Ace® Air Cushion Rubber Base Mat** rolls on one end of court.

Starting on one side, run each roll out to full length of court, ensuring Mats are spaced approximately 8mm apart at edges before laying next mat. Use a chalk line down one side at the start to ensure the first **Rubber Base Mat** is laid perfectly straight.

When mats have settled, remove tension in each mat from each end to centre (use roll tube or broom handle with small wave of mat in front of it) to ensure that the mats are in neutral compression and no stretch is left in the mats. Cut off overrun at end leaving 150mm excess.

2. Once the rubber mats have been rolled out and de-stressed, a 250 mm wide strip of plastic, 50 microns thick (**Rebound Mat Joint Underlay**) is placed on the underside of the joints to prevent the Rebound Mat Joint Adhesive adhering to the prepared substrate.

Adjust the mats immediately prior to applying each run of adhesive to obtain a 2-3 mm gap between the mats. (use **Rebound Joint Spacer Sticks** (ice cream sticks) at 1 metre interval). Take care to avoid puckering of the plastic underlay in the join.

REBOUND MAT JOINT ADHESIVE APPLICATION

Application:

Apply product continuously making sure that the bead fills the join from the bottom up. Run a paint scraper along the join to spread any excess exuded material either side of the join, before it starts to cure, and create a flat surface

(Approx. 50mm either side of the join is satisfactory). Mats can be kicked in if required to maintain a 2-3mm wide bead immediately after application. Any excess exuded material created by this action should also be removed with paint scraper.

Lay a plastic film over the join (avoid wrinkles in the plastic) as you progress, and apply a section of steel bar (75mm x 5-6mm) over the plastic above the join. The steel bars (and plastic sheet) should only be removed after the bead has cured. For ease of handling, 2-3 metre lengths of steel bar are recommended.



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REBOUND MAT JOINT ADHESIVE APPLICATION cont.

The bead should be cured in approx. 10 min in an exterior application, and about 20-25 min in an interior application. Excessive surface temperature will dramatically reduce cure times (see below) and should be taken into account during application.

The curing schedule should allow for the application of the adhesive and the use of a minimum amount of steel to complete all the joins in a continuous run. (sufficient flat steel bar for three runs is usually adequate). Repeat the application progressively across the court for all joints.

Any voids found in the joints should be back filled within 12 hours with more of the adhesive. Inspect all joints at completion of installation for any voids or partly filled areas.

Coverage Rates

Rebound Mat Joint Adhesive: 2 sausages per 36m length of join, or 25 sausages per STD court (670 m²) using 1.5m wide mat or 31 sausages for 1.2m wide mat.

Curing Time/Pot Life

Bead Curing Time	(exterior)	10 min
	(interior)	20-25 min
Film cure	(exterior)	15 min
	(Interior)	25-30 min

Remove any ridges or lumps on joints with a belt sander prior to applying Rebound Mat Sealer

Clean Up

Use Methylated spirits or **Xylene, or acrylic thinners.**

BONDING OF COURT PERIMETER

When **Rebound Mat Joint Adhesive** has cured, trim outside perimeter of court surface with a razor knife, and bond to concrete surround or base to a width of approximately 100-150mm using **Rebound Adhesive 2000.**

Note: Bricks or flat steel bars may be needed as weights on the edges to prevent the mat from curling up before the mat adhesive cures.

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REBOUND MAT SEALER APPLICATION

Product Preparation:

Premix 20 litres of **Rebound Mat Sealer W/B Pt A (Filled)** with 150 gm **Rebound Mat Sealer W/B Pt B**. Any product retained in the bottle can be removed by shaking with a small quantity of water. Immediately add the washout to the **Rebound Mat Sealer W/B Pt A (Filled)** and stir until thoroughly mixed.

Scrape the sides of the drum and pour the entire contents into a second drum. Restir to incorporate all the product. Pot life of mixed product is 6 hrs. All the drums required for the job can be mixed before starting application.

N.B. Failure to use all the required Rebound Mat Sealer W/B Pt B may result in poor adhesion.

Application:

Ist Coat:

Apply one coat of **Rebound Mat Sealer WB (filled)** to the entire court surface.

Pour the mixed mat sealer in a windrow and spread using a *flat steel trowel* at an angle of 45° to help force product into the pores of the mat.

Application rate is 0.50 – 0.60 L/m²

NB This product dries very quickly and should only be applied in the cooler part of the day to avoid skinning and application problems.

Ensure the windrow is always kept full during application.

Any excessive build up of rubber crumb in the windrow should be scraped up and discarded, and a fresh windrow poured

Allow mat sealer to cure for at least 2 hrs in good conditions.

Any nibs, lumps, or ridges left on the surface should be sliced off with a sharp knife before proceeding with subsequent coats.

Clean up: Clean mixers and equipment with water before product cures.

Product Preparation

Mix 20 litres of **Rebound Mat Sealer WB (STD)** with 150 gm **Rebound Mat Sealer WB Part B** as above.

2nd Coat

Apply one coat of **Rebound Mat Sealer WB (STD)** over the entire court surface using a rubber squeegee

Application rate is 0.2 – 0.3 L/m²

Refer to Technical Bulletin titled **Rebound Mat Sealer WB (STD)**.

Coating should be allowed to cure overnight before proceeding.

A third coat may be applied if required.

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REBOUND TYCOAT APPLICATION

Pre cut **Rebound Reinforcing** to length of court and re roll ready for application. Sufficient rolls should be cut to cover the entire court before application commences. Premix 20 litres **Rebound Tycoat 8mm** with 150 gm **Rebound Tycoat Accelerator**. Any product retained in the bottle can be removed by shaking with a small quantity of water. Immediately add the washout to the **Rebound Tycoat**.

NB. Failure to use all the required Accelerator may result in poor adhesion.

Mix drums as required and allow to stand for 10 min. Remix before use. Pot life after mixing is 6 hours. Measure width of each run and apply chalk line to ensure glass mat is laid in a straight line lengthwise of court. Sweep entire length of court 2 runs in width immediately prior to applying to ensure no dirt, dust, etc is trapped in the cured film.

Apply **Rebound Tycoat 8mm** by medium texture roller and immediately lay in **Rebound Reinforcing**.

Subsequent runs of fibreglass mat should be overlapped by 50mm to ensure adequate jointing. Ensure that feather edge of glass mat is overlapped on the top side with straight cut edge of previous joint underneath.

Compressionroll the surface before drying to eliminate any entrained air bubbles using standard fibreglass 1" diameter metal compression roller and ensure a smooth even surface. Ensure that no lumps of foreign matter or skinned material are trapped beneath the glass mat during application, as this will cause bubbles in the cured layer.

Follow up behind the compression roller with a 12mm Nap Rolona roller to remove any excess **Rebound Tycoat** squeezed out. Apply more **Tycoat** in bare areas if required. **Rebound Reinforcing** should be evenly encapsulated with no bare areas or pinholes or bubbles evident. Total application rate of **Rebound Tycoat 8mm** should be **0.5-0.6** litres/m².

Note 1: Fibreglass mat must not be laid out dry on the surface and then overcoated with **Rebound Tycoat 8mm**.

Allow to cure a minimum 24 hours before applying **Rebound Flexible Filler Coat**. Allow more time in poor weather conditions. Interior surfaces may require longer time depending on ventilation and temperature. Should the cured tycoat get wet, it will whiten initially but dry clear over a short period of time with no loss of adhesion.

For surface temperatures below 10°C, a minimum of 48 hours is essential under ideal conditions to obtain sufficient cure before applying next coats.

Do not apply when surface temperature is below 5°C or when rain is imminent.

Clean rollers and equipment with water before coating dries. All rollers should be regularly cleaned during application to prevent build up or dried material which can cause lumps of skin to be deposited in the **Tycoat/Rebound Reinforcing** causing bubbles in the finished surface. The compression roller should be kept wet in a container of water during application.

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REBOUND FLEXIBLE FILLER COAT APPLICATION

N.B. Socks only should be worn for the application of the first Filler coat. Certain types of shoes can cause delamination of the Tycoat due to the residual tack of the Tycoat film.

Ensure surface is thoroughly swept to remove all dirt, dust, etc, before applying **Rebound Flexible Filler Coat**. **Rebound Flexible Filler Coat** can be applied direct from the container or diluted up to 3 litres of potable water per 20 litres **Rebound Flexible Filler Coat**, in hot or windy conditions. Apply one coat of **Rebound Flexible Filler Coat** lengthwise of court at a rate of 0.25-0.35 litres/m² to level surface. Allow to cure for a minimum of 4 hours depending on ambient weather conditions.

Do not apply when surface temperature is below 5°C or when rain is imminent. Sand surface, if necessary, using a circular floor sander to remove any lumps, ridges, or nibs. If any bubbles are evident in glass reinforcement layer, of Rebound Ace, they should be removed by sanding with a hand disc sander. Sweep surface thoroughly to remove all dust, grindings etc. Apply a further 1-2 coats **Rebound Flexible Filler Coat**, mixed as above, by squeegee lengthwise of court at a rate of 0.2-0.3 litres/m²/coat, to smooth surface in preparation for topcoats. Ensure that any bare areas of **Rebound Ace 8mm Tycoat** layer are covered with filler before application of Topcoats.

Allow a minimum four hours between coats depending on ambient weather conditions. Sand and denib between coats as necessary to remove any ridges or lumps and sweep clean before application of next coat. Clean squeegees and equipment with water before coating dries.

Total coverage rate of **Rebound Flexible Filler Coat** applied should be a minimum 0.6 Lt/m².

REBOUND TOPCOAT APPLICATION

Prior to applying the topcoat, make a final careful inspection and remove any ridges, loose or foreign material. This topcoat may be applied using squeegee/broom, double broom, or double squeegee technique, depending on desired surface finish. The double squeegee technique provides a slightly faster surface speed. Dilute in ratio 3 parts **Rebound Topcoat** to 1 part potable water for double squeegee, or squeegee/broom techniques.

Stir mixture thoroughly before and during application. It is essential to stir the material regularly during the application process (every 10 - 15 minutes) to ensure even distribution of the graded aggregates. Inadequate stirring may result in settling of the denser aggregates in the can thus causing an uneven finished surface.

Apply a minimum of two coats at a rate of 0.20 – 0.25 litres per m² per coat, based on undiluted material. Allow a minimum 2 hours drying between coats, depending on ambient weather conditions.

TECHNICAL BULLETIN



Note : Normal procedure is to apply the first coat crosswise of the court and subsequent coats lengthwise of the court at right angles to the first. However, this is up to client preference and both coats can be applied in the same direction or in the reverse of above, if required. In general, coating lengthwise of the court gives a slightly faster surface than crosswise of the court.

Precaution

Do not apply Topcoats when temperature is below 10°C or above 25°C when rain is imminent.

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