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**Specification**

Coating of Internal Timber Floor for a Sports Floor Application Natural Finish Gloss.  
Water Based

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# Peerless Jal - Hydrothane Sports Floor System

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**General**

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Floors to be clean sound and dry and that application temperature are between 10°-30° C. The floor coating is to be installed by skilled operators and or reputable floor polishers and finishers using appropriate equipment to obtain an acceptable result.

Contractor to ensure that the timber floor moisture content is between the level of 9 - 14% as per Australian Standard, floor coating contractor to verify readings at commencement of the job and keep a record of all readings.

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**Surface Preparation on a New Floor**

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The new timber floor surface should be sanded in accordance with Aust Standards AS 4786.2 – 2005 Timber Floor Sanding and Finishing. All Nails should be punched 3 mm below the floor surface prior to sanding. No residual sanding or scratch marks to be visible after the three levels of sanding completed and floor to be even. (60 – 100, 100 – 120, and 120 -150 grit to be used). During and after sanding operations floor to be protected against accidental staining, foot traffic and moisture. Dampness under the floor may have serious effects on finished floor surfaces. Ventilation and moisture content of the sub floor space should always be checked before floor sanding operations start.

This should be followed by a thorough vacuuming and tack ragging of the surface (Cloth pre moistened with Mineral Spirits or water depending on finish sealer coat) to remove all traces of dust from all surfaces including window sills, skirtings and door trims.

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**1.1 Application**

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**FAST DRY PENETRATING SEAL AS PRIMER**

Apply one coat of Peerless JAL Fast Dry Penetrating Sealer, by using a lambswool applicator at a coverage rate of 8 - 12 m<sup>2</sup> / Litre. Ensure that all loose lint is removed from the lambswool before use to prevent leaving fibres in the surface. The recommended application procedure is the "Two Person Method". Using a clean brush, coat all edges to prevent seal being splashed on skirting boards or walls. Start by brushing out from wall and finishing in direction of grain.



## 1.1 Application Continued

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Starting in a corner, 1st person spreads the seal across the grain of the timber to a width of approximately 2 metres. The 2nd person smoothes the seal, in line with the timber grain, ensuring an even coat across the entire floor area. Care should be taken that no applicator marks are left in the finish. Continue the procedure until entire floor surface is coated. Allow sufficient time to dry (4-6 hours usual). This may vary depending on atmospheric conditions particularly in winter. Provide adequate ventilation to avoid extended drying times.

Oily timbers like Turpentine and Brush box resist the penetration of Fast Dry Penetrating Seal. To assist the adhesion of the seal it is recommended to wash the entire surface of the floor with Mineral Turpentine before application of each coat. The most suitable method to achieve this treatment is to thoroughly wet a bath towel with Mineral Turpentine, wrap the towel around a broom head and traverse the floor. Turn the towel frequently and rewet as needed to ensure a full wetting of the surface is achieved. Note: These oily type timbers can impede the initial coat drying times, if extended dry times are encountered ensure that adequate airflow is present or deploy fan forced air to create air movement.

### *HYDROTHANE AS PRIMER*

Apply one coat of un catalysed Peerless JAL Hydrothane Sport, applying with drag tool or lambs wool applicator. Ensure that all loose lint is removed from the lambswool before use to prevent leaving fibres in the surface. Care should be taken that no applicator marks are left in the finish and a uniform level of timber saturation is achieved to avoid colour variation. Typical coverage rate 12-16 m<sup>2</sup>/ Litre.

Continue the procedure until entire floor surface is coated. Allow sufficient time to dry (2-4 hours usual). This may vary depending on atmospheric conditions particularly in winter. Provide adequate ventilation to avoid extended drying times.

Note: When working with tannin prone timbers use Peerless JAL Fast Dry Penetrating Seal as primer coat or complete own test area.

Note: Leave a minimum of 72 hours before commencing application of Peerless JAL Hydrothane Sport if Fast Dry Penetrating Seal has been used as a primer coat.

## 1.2 Filling of Nails

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Filling of nail holes is affected after the sealer coat has dried. To prevent staining of timber filling of nail holes is affected after the 1st seal coat has dried. Stop up with a water based wood putty colour matched to the timber (alternative filler can be made by making a paste from Peerless JAL Hydrothane and the saw dust from sanding).

Note: Do not use oil based wood fillers when using Peerless JAL Hydrothane.

### 1.3 Cut Back Of Wood Fibre

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The initial seal coat will raise the grain of the timber creating a rough surface, which needs to be smoothed. Cut back the surface using 150 grit sand screen disc or a worn 100 grit sand screen disc. This method involves placing the sand screen disc under a rotary polishing machine. The machine must be fitted with a drive disc and nylon floor pad of similar size. A rotary machine with a vacuum pickup is particularly useful, as this machine will pickup the majority of dust. Vacuum the whole surface. Follow up by tack ragging of the surface (Cloth pre moistened with water) to remove all traces of dust from all surfaces including window sills, skirtings and door trims.

### 1.4 Line Marking

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Where applicable the lines for Basketball, Netball, etc., are now marked out. The floor lines masked and painted in desired colours. Note: When the lines are completely dry and to ensure good adhesion of Hydrothane coating to the painted lines, it is recommended that the lines be lightly cut back using a worn Sand Screen Disc, Black Pad or Steel Wool. Remove all dust from all surfaces prior to next process.

### 1.5 Applying the 1st Seal

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Add 1% by volume of Catalyst to the Hydrothane and mix for 5minutes. Apply the coat of Hydrothane using a weighted T bar applicator for water based coatings set at approximately 60°- 80° at a coverage rate of 18-20 m<sup>2</sup> / Lt, using a two person system. Ensure the applicator pad has been cleaned to remove loose fibres. First person pours a continuous line of Hydrothane Sports using the watering can technique, approx 100mm wide along the length of the floor commencing two boards in from the wall in the direction of the timber grain. Second person pulls / walks the applicator along the length of the floor keeping a puddle of Hydrothane Sport around the middle / bottom of applicator.

### 1.5 Applying the 1st Seal Continued

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At the end of the floor length turning 180°, squeezing out excess Hydrothane Sport before continuing back in the opposite direction. Ensuring the puddle of Hydrothane Sports is continuous and overlaps the first pass. Always maintaining a 100mm line of seal in front of the applicator  
This process is to be continued until the entire floor has been coated.  
Allow sufficient time to dry (2-4 hours usual). This may vary depending on atmospheric conditions particularly in winter.  
Provide adequate ventilation to avoid extended drying times.

### 1.6 Second Coat

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Apply the second coat of Peerless JAL Hydrothane Sport in the same manner as the first, as soon as the first coat is dry at a coverage rate of 20-25 m<sup>2</sup> / Lt. Ensure entire floor is coated evenly with no puddles or marks and allow floor to dry for 2-4 hrs.



## 1.7 Third Coat

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Apply the third and subsequent coats of Peerless JAL Hydrothane Sport in the same manner as the second, as soon as the second coat is dry. Under normal weather conditions the floor will be ready for sports activities within 24 hours. Test the surface to ensure it has cured before opening the floor to sports activity.

Note: In high humidity areas drying times may be extended don't attempt to play until total drying has occurred.

## 1.8 Maintaining the Floor Finish

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Once Hydrothane is fully cured the recommended maintenance is to use Peerless JAL Gym Clean on a regular basis to protect and extend the life of the seal. This should be applied following manufacturer's directions as per the data sheet. For a detailed description to carry out a maintenance schedule please visit [www.peerlessjal.com.au](http://www.peerlessjal.com.au).

## Refurbishing Previously Sealed Floors

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### Generally

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Previously sealed or existing floors to be checked for damage and contamination and rectified as needed. Floors to be swept clean of all debris and dirt. Flooring contractor to check moisture reading of floor and record details of application temperatures at commencement of job.

### 2.1 Preparation

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Remove all foreign matter, body fats and contamination by thoroughly scrubbing the floor area with a solution of Peerless JAL Timber Pre Clean, following the manufacturer's strict instructions. The use of a mop and bucket or wet/dry vac to pick up slurry is acceptable. Rinse floor and allow drying. If floor has been previously treated with a wax or polish this must first be removed by chemical stripping. The use of Peerless JAL All Purpose Stripping emulsion to be applied following the manufacturer's data sheet must be used. Note : When floor stripping is required the floor must be left overnight to thoroughly dry prior to any further steps in the refurbishment taking place.

### 2.2 Cut Back

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Once floor is completely dry a cut back /sanding of the surface is to be done to remove any imperfections of the selected timber floor. This is typically done using a 100-120 grit screen disk under a slow speed rotary polishing machine. Each 25 m2 of floor area the screen disc must be reversed, and replaced each 50 m2 to ensure that an adequate cut is achieved. Follow up by a tack ragging of the floor with a water moistened cloth to remove all dust traces. Allow floor to completely dry before applying the finishing coats.



### 2.3 Touch up of Court Lines

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Where applicable the lines for Basketball, Netball, etc, may now be touched up where they are worn.

Note: When the lines are completely dry, and to ensure good adhesion of Peerless JAL Hydrothane Sport to the painted lines, it is recommended that the lines should be lightly cut back using an old sand screen disc, black floor pad or steel wool pad.

### 2.4 First Coat

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Apply the 1st coat of properly mixed and catalysed Hydrothane at a coverage rate of 18-20 m<sup>2</sup> / Litre, using a weighted T bar applicator for water based coatings set at approximately 60°- 80° using a two person system. Ensure the applicator has been cleaned to remove loose fibres. First person pours a continuous line of Hydrothane Sports using the watering can technique, approx 100mm wide along the length of the floor commencing two boards in from the wall in the direction of the timber grain. Second person pulls / walks the applicator along the length of the floor keeping the puddle of Hydrothane Sport around the middle / bottom of applicator.

At the end of the floor length turning 180°, squeezing out excess Hydrothane Sport before continuing back in the opposite direction. Ensuring the puddle of Hydrothane Sports is continuous and overlaps the first pass. Always maintain a 100mm line of seal in front of the applicator. This process is to be continued until the entire floor has been coated. Allow sufficient time to dry (2-4 hours usual). This may vary depending on atmospheric conditions particularly in winter. Provide adequate ventilation to avoid extended drying times.

### 2.5 Second Coat

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Apply the second coat of Peerless JAL Hydrothane Sport at a coverage rate of 20-24 m<sup>2</sup> /Litre, in the same manner as the first, as soon as the first coat is dry. Ensure entire floor is coated evenly with no puddles or marks and allow floor to dry for a minimum of 24 hrs.

### 2.6 Maintaining the Floor Finish

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Once Hydrothane Sport is fully cured the recommended maintenance is to use Peerless JAL Gym Clean on a regular basis to protect and extend the life of the seal. This should be applied following manufacturer's directions as per the data sheet. For a detailed description to carry out a maintenance schedule please visit [www.peerlessjal.com.au](http://www.peerlessjal.com.au)