

RESURFACER

DESCRIPTION:

Resurfacer is a conditioning compound manufactured from 100% acrylic resins fortified with specially selected reinforcing fibres, powders and aggregate fillers. Resurfacer is supplied in a concentrated liquid form to allow for economical extending on site with sand and water. The compound is cement compatible and asbestos free

PURPOSE:

Resurfacer has been purposely formulated to fill the voids and depressions in asphalt and is also useful for resurfacing rain damaged or pitted concrete substrates. The application of Resurfacer over open or porous asphalt will seal the surface to provide an even finish of the correct structural integrity for such sports as tennis where bitumen based fillers are not suited. The use of Resurfacer reduces the consumption of more expensive fillers and top coats.

SURFACE PREPARATION:

NEW HOT-MIX ASPHALT - SURFACE COURSE

The asphalt surface course must meet or exceed either the Australian Standard AS 2734 or the U.S. Tennis Court and Track Builders applicable guidelines.

NEW HOT-MIX ASPHALT – CURE

New hot-mix asphalt surfaces must be allowed to cure for a minimum of 14 days before the application of Resurfacer.

WEATHERED AND PREVIOUSLY COLOURED SURFACES

The asphalt shall be structurally sound and in compliance with the appropriate standards for Tennis Court and Track Builders applicable guidelines.

SURFACE CONDITION

The surface shall be thoroughly cleaned using a high pressure water cleaner to remove all dirt, dust, oil, grease, leaves and other debris. The surface shall be flooded with water to check for low areas. Vegetation of any sort must be removed to avoid any future damage to the base.

Soft areas of asphalt or asphalt damaged by petroleum products such as diesel must be completely removed and replaced. Minor surface cracks may be filled with Resurfacer whereas larger cracks require treatment with Flexi-fill.

Minor depressions up to 4mm may be levelled using the Resurfacer patching blend whereas deeper depressions are best filled with a 3:1 sand, cement blend modified with Super M modifier.

CONCRETE SURFACES

New concrete shall be allowed to cure for a minimum of 28 days. Although the majority of concrete substrates which require resurfacing will be old, new concrete may on occasion need resurfacing, for example rain damaged concrete. Whatever the reason, concrete must be cleaned with a combination of dilute acid and high pressure water blasting. The cleaned and dry concrete must be sealed with an application of Hydro-Prime before applying Resurfacer blend.

MIXING INSTRUCTIONS:

The following mix ratios have been found to be satisfactory for average surface conditions.

Mix ratios may be varied to suit individual project requirements by increasing or decreasing the proportion of silica sand filler.

The following tables illustrate the recommended mix design for specific requirements:

RESURFACER BLEND (examples)

	Dense Surfaces	Open Surfaces	Patching
Water (Potable)	20 Litres	20 Litres	2 Litres
Resurfacer	40 Litres	40 Litres	8 Litres
Silica Sand	40 Litres (60kg)	60 Litres (90kg)	12 Litres (18kg)
Cement	---	--	5 Litres (5kg)
Total	85 Litres	100 Litres	20 Litres

*Dry Silica Sand of 35-45 Mesh

In general the Resurfacer mix ratios are as follows:

RESURFACER BLEND (BY VOLUME)

Dense Asphalt Surfaces

1 part water – 2 parts Resurfacer – 2 parts sand

Open Asphalt Surfaces

1 part water – 2 parts Resurfacer – 3 parts sand

Patching Blend

1 part water – 4 parts Resurfacer – 6 parts sand – 2.5 parts cement

MIXING VESSEL AND MIXER VESSEL:

Select a clean vessel capable of holding the desired volume of the mixture plus 20% e.g. for 150 litre mix select a vessel capable of holding 180 litres. A 200 litre open top drum is the ideal unit for a 150 litre mix.

MIXER:

Mechanical mixing using a slow speed stirrer of not more than 600 rpm is the preferred mixing method. The Festo RW3E mixing unit fitted with helical (jiffy) paddle is the ideal unit.

To the clean vessel add the desired volume of Resurfacer followed slowly by the silica sand, mixing periodically so as to ensure a homogenous mix. Add water proportionately to ensure an easy blend.

APPLICATION:

PATCHING

First fill any distinctive voids and deeper depressions using the patching mix up to a maximum of 4mm per application. Apply using a hand trowel or a rubber squeegee. Allow to dry before proceeding, approximately 1 to 3 hours depending on depth of voids and weather conditions.

RESURFACER MIX

Apply the Resurfacer Mix using a rubber squeegee of between 60cm to 120cm in width. If more than one coat is required allow each subsequent coat to fully dry. DRYING TIME WILL VARY FROM 1 TO 2 HOURS DEPENDING ON WEATHER CONDITIONS BUT

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MAY BE CONSIDERABLY LONGER IN POOR DRYING CONDITIONS.

APPLICATION RATE

Application rate of the Resurfacer Mix will vary depending upon porosity of the asphalt surface. As a guide the Resurfacer Mix will cover an average of 0.6 litres per square metre. On this basis the requirements for Resurfacer (concentrate) should be calculated at 0.29 litres per square metre or 3.45 square metres per litre.

Precautions:

Do not apply when the temperature is below 10°C or above 40°C.

Do not apply when rain is imminent.

Do not exceed water ratio.

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