

777-065

Portco Floor Finish Hi Build

PRODUCT DESCRIPTION AND USES

Portco Hi Build is a single pack moisture cure polyurethane for interior use on timber, cork (excluding coloured cork), parquet, particle board, strand board and concrete. Portco Hi Build is designed as a medium viscosity polyurethane to provide the ideal balance between ease of application and rapid build.

Portco Hi Build provides a sharp high gloss finish or acts as the ideal build coat for a subdued gloss finish. Portco Hi Build provides excellent wet edge extension and positive through dry.

Polyurethanes produced by Protective Paints Ltd contain low free isocyanate levels and do not contain xylene providing a safer product for the applicator.

TYPICAL USES • INTERIOR

Cork
Parquet
Timber
Particle Board
Strand Board
Concrete

PHYSICAL PROPERTIES

Colour/Texture	Amber/high gloss
Gloss Level	90%±4%
Solids	50%
Reactive NCO	3%
Free TDI	0.5%
Solvent	Xylene free
Flash point	27°C
Mixing Ratio	Not Applicable
Potlife	Not Applicable
Drying Time	Touch Dry: 3-4 hours (ambient temperatures) Hard Dry: 8 hours (ambient temperatures)
Recoat Time	Minimum: 8 hours
Full Cure	7-10 days
Packaging	4L, 10L, 20L

NB: A minimum of 24 hours should elapse before a freshly coated floor is subjected to light traffic.

SHELF LIFE

Portco Hi Build is not stable in part containers, especially if they have been left open in the air. Once the can is opened, the product should be utilised within 2-4 weeks depending on storage. An unopened container has a shelf life of approximately twelve months from the date of manufacture.

SURFACE PREPARATION

Proper surface preparation is essential to achieve a professional finish. Ensure all dust, dirt and other contamination is removed prior to coating.

New/Previously Uncoated

The timber must be sanded to provide a surface which is smooth with a good key for the coating system. Sanding procedures will vary depending on flooring materials however with most types of timber, a fine finishing paper can cause undesirable burnishing which may prevent good adhesion of the first coat (refer sanding guide).

Make several cuts with the sandpaper increasing paper fineness with each cut. The final cut should be no finer than 100-120#.

NB: For best results ensure not to increase more than 1 grit size per cut i.e. 24#-40#, 40#-80# etc.

Previously Sealed or Coated

Ensure compatibility of product to existing coating prior to application.

Poor Condition

If previous coating has worn through to the timber the entire floor must be sanded back to bare timber and treated as for previously uncoated timber.

Good Condition

If coating is worn but still intact sanding back with a 150#-240# screen disc or paper is sufficient. Vacuum entire area to remove dust. Prior to coating, the floor must be wiped down with Portco 2K Thinners to soften the underlying coating and improve intercoat adhesion. Refer reglaze procedure.

Concrete

Unsealed and untreated concrete must cure at least 30 days. Etch concrete using Protective Paints 736-080 Hydrochloric Etch and wash thoroughly with clean water to neutralise. Allow to dry thoroughly before application of coating system.

APPLICATION EQUIPMENT

Portco Hi Build can be applied using a soft bristled (250mm-300mm) brush, 6mm mohair roller or applicator.

APPLICATION DATA

Recommended D.F.T	40 microns/coat
Recommended W.F.T	80 microns/coat
Recommended No. of coats	2-3
Theoretical Spreading Rate	6-8m ² /litre
Thinners	2K Thinners
Clean up	2K Brushwash

NB: Brushwash inhibits the cure of the polyurethane, and it is therefore essential equipment is thoroughly dry prior to application of polyurethane. Brushwash cannot be used to thin Portco Hi Build.

THINNING

Portco Hi Build is supplied ready for use and should not generally require thinning unless being utilised as a sealer. If product has thickened or is drying too quickly in warmer conditions, a small amount of 2K Thinners may be used to ease viscosity and extend wet edge.

Where Portco Hi Build is used as a sealer on bare timber it should be thinned approximately 30% with 2K Thinners.

APPLICATION METHOD

Ensure moisture content of timber is between 12%-15% before polyurethane is applied. Ensure all dust and other contaminants are removed prior to coating.

On Bare Timber

(Excluding Particle Board and Strand Board). A diluted coat of Portco Hi Build should be used as a sealer -refer details on thinning. Apply Portco Hi Build at a spreading rate of 6-8m²/litre using the recommended equipment. When floor is sufficiently dry (8-24hours), sand the surface using a paper no finer than 150#. Vacuum off carefully in order to remove dust from between boards and skirting areas. Repeat the procedure above until 3-4 coats have been applied. A 240# disc can be utilised to sand the surface prior to the application of the final coat of Portco Hi Build.

NOTES

Do not apply Portco Hi Build when temperature or substrate is below 10°C, above 30°C or when it is extremely dry and windy. Ensure dust masks are worn whilst sanding floor and organic cartridge mask whilst coating. Where quicker cure is required, refer specification sheet 778-020 M/C Standard Catalyst. Where additional UV protection is required, refer specification sheet 778-040 UV Additive.

HEALTH AND SAFETY

Irritant
Avoid contact with skin and eyes. Avoid breathing vapour or sanding dust. When using this product it is recommended that full overalls, gloves, face mask and goggles be worn. Store container in a safe place when not in use. Do not burn container.

FIRST AID

EYES
Flush with water for at least 15 minutes and seek medical advice.
SKIN
Wash contact areas with soap and water. Remove all contaminated clothing, and seek medical advice. Do not scrub.
INHALATION
Remove patient from further exposure, and keep patient warm and comfortable.
INGESTION
Do not induce vomiting. Rinse mouth with water. Seek medical advice as soon as possible.

TRANSPORTATION AND DISPOSAL

Class 3
Hazchem Code •3YE; •3Y
UN No 1263
Packing Group No III
Fire Extinguishing Media CO₂, Foam, Dry Chemical
Fire Fighting Procedure Fire fighters should wear self contained breathing apparatus. Fight fire from a protected location as product may explode on heating. The vapours are heavier than air, so may travel along the ground to accumulate in low areas. Fire may flash back along vapour trail, and can also react with oxidising agents.
Spills should be cleaned up immediately by using sand or other non-flammable absorbent materials. Ensure material does not enter waterways.
Dispose of empty containers in accordance with local by laws.

SYSTEM SUMMARY

SUBSTRATE	SYSTEM	1 ST COAT	2 ND COAT	3 RD COAT
Particle Board/ Strand Board Timber/Parquet	3 day	777-065 Portco Hi Build	777-065 Portco Hi Build	777-065 Portco Hi Build
	2 day- soft timber	999-050 Superseal	777-065 Portco Hi Build	777-065 Portco Hi Build
	2 day- hard timber	772-2K FD Sealer	777-065 Portco Hi Build	777-065 Portco Hi Build
	3 day (Diluted 30%)	777-065 Portco Hi Build	777-065 Portco Hi Build	777-065 Portco Hi Build
Cork (Excluding coloured cork)	2 day	999-050 Superseal	777-065 Portco Hi Build	777-065 Portco Hi Build
	3 day	777-065 Portco Hi Build	777-065 Portco Hi Build	777-065 Portco Hi Build
Concrete	2 day	779-000 Polyurethane CFS	777-065 Portco Hi Build	777-065 Portco Hi Build (optional)

OTHER INFORMATION

This product may be used for a wide variety of surfaces. If the surface you propose to paint is not referred to, contact Protective Paints Technical Department for classification.

For further technical information please phone 0800 724 684.

RELIABILITY OF INFORMATION

All statements and technical information contained herein are based on tests we believe to be reliable but the accuracy thereof is not guaranteed. Since Protective Paints Ltd has no control over product application, purchasers and users must confirm the suitability of our products under their conditions to meet their own requirements.

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