

TECHNICAL DATA SHEET

2K-POLY86

2 PACK VARNISH FOR WOOD FLOORS & SURFACES

DESCRIPTION

- Highly superior professional two-part water-based polyurethane varnish for floors, worktops and all surfaces exposed to extreme wear.
- Ultra durability with fast performance.
- 2K-POLY86 offers the toughest and fastest drying high-performance varnish available on the market for trade applications.
- For use in hotels, restaurants, airports, shops, commercial premises, where short downtime is essential, 2K-POLY86 gives unrivalled speed and durability.
- Outperforms other 2 pack varnishes in laboratory tests.

FOR USE ON

High-traffic flooring, commercial areas, schools, hospitals, shopping centres, bars, restaurants, dance halls, furniture, cabinetry, industrial, kitchens, bathrooms, office & commercial furniture, joinery & shop-fitting – all areas that require very high traffic, chemical & alcohol resistance.

AVAILABLE FINISHES

Dead Flat, Satin, Gloss

UNIQUE SELLING POINTS

Extreme chemical, alcohol, abrasion & traffic resistance

UV Stability

Low VOC

High Build

Excellent Adhesion and Versatility

Anti-Yellowing

High Flow & Self-Healing

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SURFACE PREPARATION

Ensure surface is acclimatised to its end-use environment, well sanded, dry, and free from sanding dust, oil, wax and other contamination.

Test Area. Check the adhesion prior to overcoating. Apply to the prepared area. Allow to set for 3 days then scratch the treated surface gently with a coin. If the finish stays firmly attached to the surface, the adhesion is good and the coating process can start.

Adhesion failure can occur if this process is not followed, and the floor has not been tested for compatibility.

Surfaces coated with waxes, polishes or other similar products cannot be overcoated and should be fully sanded back to bare wood to at least 120 grit.

APPLICATION

Allow varnish and hardener to reach room temperature. Optimal conditions for use are between 18-25°C

Varnish product = Component A

Hardener product = Component B

Mixing ratio: 10%/100ml Component B to 1L Component A or 10%/400ml Component B to 4L Component A. Both containers (resin and cross linking) must be brought to room temperature (20 °C) and must be mechanically stirred.

Pour Component A into a clean bucket, add Component B, and immediately blend thoroughly using suitable mixing equipment. Mix gently and do not entrain air.

After the addition of Component B, the container must not be resealed to avoid the risk of excessive expansion of mixed product.

Apply a full and even coat of 2K-POLY86 onto the surface using 5mm short pile Microfiber Roller.

- Floor Applicator Pad/T-Bar: A lambswool or synthetic pad is efficient for fast, even application on large floors, reducing lap lines.
- Lightweight T-Bar Applicator: This is a highly recommended, versatile tool for applying water-based coatings. It features a tapered edge, which is excellent for handling trim and baseboards smoothly.
- Polyvine Synthetic Brushes: For edges, corners, and "cutting in," use high-quality Polyvine synthetic brushes designed for use with water-based products.

Apply a minimum of 2 coats. Starting at the edges, with the grain. In heavy wear/traffic areas, a third coat is required.

Initially, mechanically stir this thoroughly. and then again during the coating process. Take care, do not entrain air. Careful and systematic application is essential to ensure that the complete area has the same product thickness.

Make sure that the quantity mixed can be applied within the open time of 4 hours.

- Drill Mixing Paddle: Essential for large quantities and for thoroughly mixing the varnish with the hardener to ensure proper curing. Mix slowly, do not entrain air
- Paint Scuttle/Bucket: A 15-litre plastic scuttle allows for easy dipping of large rollers if required
- Extension Pole: A sturdy, telescopic pole allows for standing application
- Spiked Shoes: Used to walk on wet 2-pack epoxy/varnish without leaving boot marks

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After application of the final coat, the surface can be used after drying for 12 hours.
If left to dry for more than 24 hours, sanding (grain 120) must be carried out before the next coat is applied.
Avoid standing water.

CAUTION

Optimum temperature is 18 to 25 °C and relative humidity between 35 % and 65 %.
Low temperatures and high humidity will extend the drying time and high temperatures and low humidity shorten will lengthen drying time. Minimum temperature for use is 13°C. Poor drying conditions may reduce product performance and adhesion.

Use the mixture directly or at least within the open time of 4 hours.

Ensure proper ventilation.

- Touch dry / dust free: 4 hours
- Recoat / sanding: 4 hours
- Traffic: 12 hours
- Furniture replacement: 3 days (with care; avoid rugs)
- Full chemical cure / maximum hardness: 3 days
- Allow the surface to dry for at least 3 days before covering with carpets or other coverings. Also avoid placing heavy objects or cleaning during this time

Plasticisers found in materials such as carpet underlays, furniture legs, castors and adhesives used for fixing can lead to softening and discolouration. Use protection or completely avoid contact. Spills should be removed promptly. Unattended spills may cause cosmetic stains or damage to the surface.

COVERAGE

Approx. 10 m²/litre

NUMBER OF COATS

2 Coats

3 Coats for High Traffic/Wear

Use After: 12 hours @20°C/70°F

Full Cure: 72 hours @20°C/70°F

Drying Time: 4 hours

Recoat Time: 4 hours

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STORAGE

Protect from extremes of temperature during storage and application.
Store in unopened containers in a cool dry place away from direct sunlight.
Shelf Life: Up to 24 months for the base and hardener components, provided they are kept strictly unopened in tightly sealed container.

The temperature must not fall below +5°C or exceed +30°C during storage and transport.

Store in a cool place. Waste and emptied containers should be handled in accordance with local regulations.

HEALTH SAFETY AND THE ENVIRONMENT

Non-hazardous. Keep out of reach of children. Contact with eyes - wash immediately with warm water.
If swallowed, seek medical advice immediately and show the container or label.
Do not empty the drains, dispose of this material and its container at hazardous or special waste collection point.

Component A: Requires no special protection or precautions in general use.

Component B: contains pre-polymerised isocyanate

For further health and safety advice and for medical and first aid procedures, see MSDS sheet for each component.

CLEAN UP EQUIPMENT

Any equipment used can be cleaned using soap and water before the clear coat dries. Wipe any excess off surfaces with a damp cloth. Any dried deposits will need Polyvine Varnish and Paint Remover to remove them.

DISPOSAL

Look for special facilities locally. Do not empty into drains or water courses.

The information provided is prepared to the best of our current knowledge and makes no claim to be complete. The user is responsible for establishing that the product and recommendations herein are fit for the designated purpose, wood type and present situation before use. A professional and therefore successful application of the product is beyond our control. Always do a preliminary test. The User is required to read and understand all information contained on package labels and safety data sheets before using this product.

Once mixed and fully cured:

Certifications: EN codes and standards

Eco Credentials

EN 13501-1; Reaction to fire: Self-Extinguishing

EN 71-3: Application on children's toys

EN. 1935/2004 on materials and articles intended to come into contact with food. Food Safety

EN 71-3:2019 + A1:2021 Pet Safety

EN 1506272-2 Impact Resistance

MANUFACTURED IN THE UK

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For technical and recycling info visit our website polyvine.com