# How to Apply a Three-Coat Epoxy Flooring System – Step-by-Step Guide

This three-layer system delivers a professional-grade finish for residential, commercial, and industrial floors. Designed to withstand heavy traffic, moisture, and abrasion, this method is ideal for garages, warehouses, and retail spaces.

## Is This a DIY-Friendly System?

Yes – with proper preparation and the right tools, this can be applied by confident DIYers. If you're unsure or dealing with high moisture, consider hiring a professional.

## Team Setup Recommended:

• One person mixing epoxy and cutting in edges
• One person rolling or squeegeeing product
• One person broadcasting anti-slip media or assisting with back-rolling (for heavy broadcast systems)

## Step-by-Step Instructions

### Step 1 – Surface Preparation

• Clean and degrease the concrete thoroughly
• Repair cracks using Concrete Bog or Sikadur 33
• Diamond grind or mechanically abrade the surface (CSP 2–3 recommended)
• Vacuum and mop until dust-free
If you are based in Sydney, we can deliver or you can pick up a concrete grinder with a dust extractor at a competitive rate.

### Step 2 – Apply Ultra Primer (Penetrating Epoxy Primer)

• Mix Part A and B thoroughly for 2–3 minutes (Mix Ratio 2:1 BY VOLUME)
• Use a roller or squeegee to apply at 6–8 m²/L (coverage depends on concrete porosity)
• Cut in edges with a brush, then roll or squeegee and back-roll
• Allow to dry 10–12 hours before recoating
Note: You may tint Ultra Primer for a uniform base colour (optional)

Important:
Do not keep mixed epoxy in a bucket—it will reduce the pot life significantly.

### Optional Step – Apply Ultrabarrier (Two-Pack Moisture Barrier)

Use this step if:
• Concrete moisture >5%
• You're working on ground slabs or damp areas

• Apply two coats perpendicular to each other
• Coverage: 4–5 m²/L per coat
• Recoat time: 8–10 hours between coats, 12–18 hours before topcoat
• Mix ratio: 3:1 (A:B) BY VOLUME

### Step 3 – Apply Ultrashield Base Coat

• Mix Ratio 3:1 (A:B) BY VOLUME
• Mix Part A and B thoroughly with mixing paddle and drill, add 1 litre of thinner (more may be needed in cold climates)
• Use a squeegee or roller to spread evenly at 4–5 m²/L
• Back-roll for even coverage
Tip: For improved grip, lightly broadcast anti-slip media while still wet
• Allow to dry 12–18 hours

### Step 4 – Apply Ultrashield Top Coat + Anti-Slip Additive

• Mix Part A and B (Mix ratio 3:1 by volume)
• Add anti-slip media (aluminium oxide or silica sand) as required:
 - Mix-in: for light-duty grip
• Apply with roller at 5–6 m²/L
• Allow 24 hours for light foot traffic
• Full cure: 5–7 days

## Shopping List – What You Need

Product Quantity Guide (Double Garage ~40m²)
Ultra Primer 1 × 8L Kit
Ultrabarrier (optional) 1 × 8L Kit
Ultrashield 2 × 8L Kits
Anti-slip Media 1 tub per 8L kit (floating media)
Magic Squeegee 1
Spike Shoes 1 pair
Paint Trays & Rollers 2–3 sets
Concrete Bog/filler As needed for cracks
Solvent For clean-up and degassing (GP Thinners)

## Tips for Success

• Ideal temperature: 15–25°C
• Keep product stored cool prior to use
• Don’t apply if rain or humidity is expected
• Stick to recoat windows to avoid adhesion failure

## Final Thoughts

This three-coat epoxy system provides a strong, glossy, and chemical-resistant surface that lasts. When in doubt, test a small section first or speak with our team.

🛒 Order online at Sydney Industrial Coatings
📞 Need help? We’re just a call away!