

## Infinity Effects Resin-Bound Decorative Drive System (System 2)

Vehicle-Grade Resin-Bound System Over Asphalt/Tarmac

**Type:** Polyurethane/Polyaspartic Hybrid Resin-Bound Aggregate System

**Warranty:**  Yes – Warranted when installed by an Infinity Certified Installer

**Purpose:** Designed for residential and commercial driveways, parking bays, footpaths, and high-traffic exterior surfaces laid over **new or aged asphalt/tarmac**. Provides a UV-stable, anti-slip, flexible decorative finish designed to accommodate the natural movement of asphalt/tarmac substrates.

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### Materials You'll Need

- Pressure washer
  - Clean cloths / rags
  - Vacuum (industrial)
  - Moisture meter
  - pH testing strips
  - Mixing drills & paddle
  - Resin-bound forced-action mixer (Cresta/SoRoTo/Baron type)
  - Infinity Effects Rox Primer
  - Infinity Effects Rox Binder (UV-stable)
  - Decorative kiln-dried aggregates (1–3mm / 2–5mm 04 1-4mm / 2-6mm depending on system)
  - Infinity Effects Anti-Slip Glass Beads™ (optional)
  - Infinity Effects Rox Sealer
  - Masking tape
  - Plastic sheeting
  - Resin trowels, floats, steel floats
  - Infinity Effects Safe Solvent or Thinners
  - Expansion joint foam or joint tape
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### Additional Equipment (Optional)

- Mixing tent / canopy (for humid or hot climates)
  - Forced-air heater for cold conditions
  - Primer / Binder accelerator
  - Mechanical surface grinder or diamond floor prep machine
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### Step-by-Step Application Guide

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### **Step 1. Clean and Prepare the Asphalt/Tarmac Surface**

- Power wash thoroughly
- Scrub with a stiff brush
- Remove moss, mud, loose stones, tyre marks, and oil
- Vacuum or blow clear
- Allow surface to fully dry

#### **Important:**

New asphalt/tarmac must cure for **a minimum of 28 days** before installing resin-bound.

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### **Step 2. Inspect and Repair the Asphalt/Tarmac**

Check for:

- Soft or unstable areas
- Crumbling binder
- Loose top layer (fretting)
- Fatty/bleeding spots
- Potholes or deformation

Repair using:

- Asphalt/Tarmac Repair Mortar
- Hot asphalt/tarmac patch where needed
- Cutting out and replacing failed sections

Surface must be firm, stable, and sound.

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### **Step 3. Assess Substrate Movement and Stability**

Asphalt/tarmac naturally expands and contracts.

Before installation:

- Ensure adequate thickness (50–75 mm recommended)
  - Confirm no active movement or surface softness
  - Treat oil-contaminated patches with appropriate cleaner or lockcoat
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### **Step 4. Remove Dust and Contamination**

After cleaning:



- Sweep thoroughly
- Vacuum all loose grit
- Ensure no oily residues
- Ensure the surface is fully dry

If oil bleeding is present → apply an **oil-blocking primer** before Step 6.

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### **Step 5. Tape and Protect Surrounding Areas**

Mask and cover:

- Edges
- Brickwork
- Drains
- Garage entrances
- Kerbs
- Landscaping

This prevents resin staining and ensures crisp borders.

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### **Step 6. Apply Asphalt/Tarmac Grade Primer**

Primer benefits:

- Controls bitumen bleed
- Seals porous or worn surfaces
- Improves adhesion
- Stabilises dusty regions
- Reduces resin absorption

Wait until primer becomes **tacky**, not dry, before installing mesh.

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### **Step 7. Install Infinity Effects Movement Mesh (Essential for Asphalt/Tarmac)**

Movement mesh is critical because asphalt/tarmac is flexible and resin-bound is semi-rigid.

**Choose one:**

- Infinity Effects Self-Adhesive Movement Mesh (recommended)
- Infinity Effects Standard Mesh (rolled into tacky primer)

**Purpose:**



- Absorbs expansion and contraction
- Prevents reflective cracking
- Strengthens weak asphalt/tarmac
- Improves load distribution
- Extends system lifespan

**Installation Guidance:**

- Install into **tacky primer**
- Overlap strips by **50–80 mm**
- Smooth flat—no bubbles or bridging
- Double-mesh high-stress areas and slopes
- Do not span active joints

Allow mesh to fully bond before resin application.

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**Step 8. Prepare the Resin-Bound Aggregate Mix****3-Person Method Required for Driveways**

Standard mix ratio:

- 100 kg kiln-dried aggregate
- 7.5 kg Infinity Effects ROX Binder
- Optional: Anti-Slip Glass Beads

**Mixing Instructions:**

1. Load aggregates into a forced-action mixer
2. Add binder evenly over the top
3. Mix 90–120 seconds
4. Do NOT overwet or overmix
5. Empty immediately into wheelbarrows and lay

Asphalt/tarmac radiates heat → binder will cure faster.

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**Step 9. Apply the Resin-Bound Aggregate**

Spread the mix uniformly:

Recommended thickness:



- **18–24 mm** for car traffic
- **15–18 mm** for pedestrian areas

Application notes:

- Begin at highest point for drainage
  - Maintain wet edges to avoid cold joints
  - Use a steel float/resin trowel
  - Compact fully for maximum strength
  - Ensure consistent texture and colour
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### **Step 10. Trowel and Perfect the Finish**

During finishing:

- Use minimal solvent mist (if needed)
  - Do not over-trowel
  - Ensure a smooth, even finish
  - Keep edges straight and clean
  - Remove trowel drag marks while wet
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### **Step 11. Allow Full Curing**

Curing times vary with temperature and substrate heat:

- **Foot traffic:** 6–8 hours
- **Vehicle traffic:** 24–48 hours
- **Full cure:** 5–7 days

Protect from:

- Rain
- Debris
- Tyres
- Pets
- Dust
- Overnight moisture

Cover if rain is forecast.

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### **Step 11. Apply Infinity Effects ROX Sealer (Optional but Recommended)**



Applied after resin-bound surface has cured (usually 24 hours).

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#### TOP SEAL APPLICATION SETTINGS

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- Roller application
  - Coverage: 150–200 g/m<sup>2</sup>
  - Additives: Up to 10% ROX Thinner (if required for penetration)
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Benefits:

- Enhances UV resistance
- Protects from oil & fuel staining
- Increases slip resistance
- Improves long-term durability

Allow to dry before vehicle use.

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#### Step 13. Final Inspection

Check for:

- Even thickness
- Consistent texture
- No bald patches
- No reflective cracks
- Proper compaction
- Full curing

Once approved, the surface is ready for vehicle use.

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#### Important Tips

- Do **not** install over fresh asphalt/tarmac (must cure 28+ days).
  - Avoid installation during very hot weather.
  - Use mesh on **every** asphalt/tarmac job — no exceptions.
  - Keep aggregates bone-dry.
  - Never use a cement mixer (forced-action only).
  - Maintain continuous batching and laying.
  - Protect surface from contamination while curing.
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#### Problems & How to Avoid Them



**Cracking:**

Caused by asphalt movement → always use movement mesh.

**Brown staining:**

Caused by bitumen bleeding → prime with correct asphalt/tarmac primer.

**Loose stones:**

Caused by under-mixing or incorrect binder ratio.

**Whitening:**

Caused by water during cure → protect surface for 24 hours.

**Uneven finish:**

Caused by slow installation → use proper team workflow.

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**DISCLAIMER**

Customers must follow all instructions to ensure optimal system performance.

Information provided is based on extensive testing and field data but may not cover all substrate conditions.

Infinity Effects accepts no liability for misuse, incorrect application, or failure of underlying asphalt/tarmac.

A test patch must always be performed prior to full installation.

Colour variations may occur between aggregate or binder batches.

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## INFINITY ROX BINDER FLOOR SYSTEM'S

