**Infinity ROX Binder – Resin Bound System**

**Frequently Asked Questions (F.A.Q.)**

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### ⚠️ CRITICAL – SYSTEM SUCCESS IS 80% PREPARATION & MIX CONTROL

Resin bound systems are **not forgiving**.

👉 Most failures are caused by:

- ❌ No primer
- ❌ Incorrect catalyst use
- ❌ Poor substrate preparation
- ❌ No reinforcement

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### ⚠️ IMPORTANT – CATALYST & MIXING CONTROL

Infinity ROX Binder is **catalysed to cure**, but correct handling is critical.

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### ✅ Correct Catalyst Method (BEST PRACTICE):

- Add the **catalyst into Part A BEFORE mixing with PART B or with aggregates**
- Mix thoroughly to ensure **even catalyst distribution**
- Then proceed with combining into your full mix

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👉 This ensures:

- Even curing throughout the mix
- Consistent strength
- Controlled working time

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### ❌ Incorrect Catalyst Handling Leads To:

- Uneven curing

- Soft or weak spots
- Premature setting in areas
- Reduced system performance

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**1. Why is primer so important in resin bound systems?**

Primer is **mandatory**, not optional.

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**What Primer Does:**

- Creates a **chemical bond** between substrate and system
- Seals porous surfaces
- Prevents air release (bubbling)
- Locks the system into the base

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⚠️ **IMPORTANT:**

👉 **Priming is especially mandatory on non-permeable surfaces such as concrete**

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**What Happens If You DON'T Use Primer:**

- Delamination (lifting from base)
- Bubbling from trapped air
- Weak bond under traffic
- Moisture ingress from below

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👉 Without primer, the system is **only sitting on the surface — not bonded to it**.

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**2. I skipped primer and now my surface is lifting or breaking – why?**

This is **adhesion failure**.

**Cause:**

- No chemical bond to substrate
- Surface contamination or porosity issues

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**Only Fix:**

- Remove failed material
- Fully re-prep
- Reapply with **correct priming system**

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👉 There is **no shortcut fix** once failure occurs.

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**3. How important is catalyst control in ROX Binder?**

**Critical.**

Catalyst controls:

- Reaction speed
- Workability
- Final strength

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**If Too Little Catalyst is Used:**

- Slow or incomplete cure
- Soft or spongy finish
- Reduced strength

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**If Too Much Catalyst is Used:**

- Rapid reaction

- Reduced working time
- Brittle finish
- Increased cracking risk

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**4. How should catalyst be adjusted for temperature?**

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**Hot Conditions (Fast Reaction):**

- Slightly reduce catalyst
- Keep materials cool
- Work in smaller batches

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**Cold Conditions (Slow Reaction):**

- Increase catalyst within safe limits
- Store materials in warm conditions
- Avoid cold substrates

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👉 Always stay within **recommended ratios — never guess**.

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**5. What happens if catalyst is not adjusted correctly?**

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**Too Fast (Hot Conditions):**

- Material sets too quickly
- Poor finish
- Weak stone bonding

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**Too Slow (Cold Conditions):**

- Delayed curing
- Surface movement or washout
- Reduced strength

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👉 Temperature mismanagement is one of the **leading causes of failure**.

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**6. Can I apply ROX Binder over an existing resin bound surface?**

👉 **Yes — but only with correct preparation and system build-up**

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⚠️ **Important Guidance:**

- You must **re-prime the entire surface** before overlaying
- Apply a **full new system at 15mm+ thickness (depending on use)**

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**Best Practice:**

- Fully clean and prepare the existing surface
- Apply **primer (mandatory)**
- Install new resin bound layer at correct depth

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⚠️ **Recommendation:**

👉 While overlaying is possible, we **always recommend lifting and relaying** where feasible

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**Why:**

- Ensures full structural integrity
- Eliminates hidden failures
- Provides longest lifespan

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**7. What is a rejuvenator and when should it be used?**

A rejuvenator is used to **restore older resin bound surfaces**.

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**Preparation Required:**

- Full **deep clean (power wash + degrease if needed)**
- Remove:
    - Dirt
    - Algae
    - Loose material
- Allow to fully dry

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**Benefits:**

- Restores colour
- Improves surface strength
- Extends lifespan
- Improves visual appearance

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👉 Without proper prep, rejuvenation will **not bond or perform correctly**.

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**8. What is CRM Mesh and why should I use it?**

CRM Mesh (Crack Reduction Mesh) provides **reinforcement within the system**.

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**Benefits:**

- Absorbs movement
- Reduces cracking
- Improves tensile strength

- Distributes load evenly

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**Recommended Use:**

- Weak substrates
- Areas with movement
- High traffic zones
- Repairs or mixed bases

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**9. What happens if I DON'T use mesh?**

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**Without mesh:**

- Cracks transfer through the surface
- Reduced durability
- Increased failure risk
- Weak structural performance

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👉 Reinforcement is key for **long-term system reliability**.

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**10. My resin bound surface is breaking or loosening – why?**

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**Common Causes:**

- No primer
- Incorrect catalyst use
- Poor preparation
- Moisture in substrate
- No reinforcement

👉 Resin bound is a **system — not just a product**

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**11. How do I ensure a successful installation?**

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✅ **Best Practice Checklist:**

- Fully clean and prepare substrate
- Apply **primer (mandatory)**
- Add catalyst correctly into **Part A before mixing**
- Adjust catalyst for temperature
- Mix thoroughly and consistently
- Install at correct depth (15mm+)
- Use CRM mesh where required
- Avoid moisture during install
- Test before full application

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⚠️ **Critical System Guidelines**

- Primer is **mandatory (especially on non-permeable surfaces)**
- Catalyst must be **accurately measured and added correctly**
- Substrate must be **clean, dry, and stable**
- Reinforcement should be used where required
- Follow full **Infinity system application methods**

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⚠️ **Failure to follow correct procedures can result in:**

- Delamination
- Cracking

- Soft or brittle surfaces
- Poor finish
- Structural failure
- Voided warranties