

## Infinity ROX Bind Vertical Single Part Binder

### Technical Data Sheet (Draft)

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#### 1. Product Description

Infinity ROX Bind Vertical Single Part Binder is a **high-performance, single-component vertical-grade aggregate binder** designed to adhere decorative stone and aggregates to **vertical and inclined surfaces**.

Formulated with enhanced **thixotropic (non-sag) properties**, this binder allows aggregates to be applied to **walls, upstands, features, and vertical structures** without slumping, while maintaining a **natural stone appearance**.

This product provides a **simple, ready-to-use alternative** to traditional multi-component resin systems for **light-duty decorative vertical applications**, with no catalyst or hardener required.

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#### 2. Recommended Uses

Infinity ROX Bind Vertical Single Part Binder is suitable for:

- **Vertical stone cladding systems**
  - **Feature walls & decorative panels**
  - **Concrete and rendered walls**
  - **Planters and retaining walls**
  - **Upstands and edges**
  - **Internal and external decorative surfaces**
  - **Architectural features**
  - **Lightweight vertical resurfacing**
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#### 3. Key Features

- **Single-part / ready-to-use system**
- **Thixotropic (non-sag) formulation for vertical application**
- **No mixing of Part A / Part B required**



- **Apply by hand, trowel, or render-style application**
  - **Strong adhesion to suitable substrates**
  - **Allows natural stone finishes on vertical surfaces**
  - **Permeable structure when used correctly**
  - **User-friendly and efficient installation**
  - **Suitable for internal and external use (conditions dependent)**
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#### 4. Limitations

**Infinity ROX Bind Vertical Single Part Binder is not recommended for:**

- Structural applications
- Load-bearing surfaces
- Areas subject to heavy impact or abrasion
- Vehicle traffic
- Constant water immersion
- Poorly prepared or contaminated substrates
- Wet or non-stable surfaces

This system is designed for **decorative vertical applications only**.

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#### 5. Technical Information

##### Typical Properties

- **Appearance:** Milky / translucent liquid (dries clear)
- **Type:** Single-part vertical binder
- **Chemistry:** Water-based thixotropic binder system
- **Application Method:** Trowel / hand application / render style
- **Viscosity:** Medium–high (non-sag formulation)
- **Dilution:** Not recommended
- **Minimum Application Temperature:** 5°C



- **Drying Time: 12–36 hours** depending on conditions
- **Full Cure:** 24–72 hours (environment dependent)
- **Clean-Up:** Warm / hot water (before cure)

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## 6. Coverage & Mixing Ratio Guide

### Typical Binder-to-Aggregate Ratio

Due to vertical application requirements, higher binder loading is required compared to horizontal systems.

### Mix Ratio (Guide Only):

- **6% – 10% binder by weight of aggregate**

### Example:

- **25 kg aggregate → 1.5 kg – 2.5 kg binder**

✓ **6–7%** → Lighter decorative finish

✓ **8–10%** → Stronger adhesion for vertical hold

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### Application Thickness

- Typical vertical application depth: **10–20 mm**
- Heavier builds may require **layering or reinforcement**

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### Important Notes

- Insufficient binder will result in **slumping or stone loss**
- Excess binder may result in:
  - Glossy finish
  - Reduced natural stone look
  - Slower curing

✓ Always complete a **test panel before full application**

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## 7. Substrate Requirements

Substrate must be:

- **Solid and structurally sound**
- **Dry and free from moisture**
- **Clean and free from dust, oil, grease, and contaminants**
- **Adequately keyed (mechanical profile recommended)**

Suitable substrates include:

- Concrete
- Render
- Cement board
- Prepared masonry
- Primed surfaces (where required)

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## 8. Surface Preparation

1. Ensure surface is clean, dry, and stable
2. Mechanically abrade or key smooth surfaces
3. Remove all dust and contaminants
4. Prime substrate if required (contact Infinity for system-specific primers)
5. Carry out a **test patch**

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## 9. Application Method

### Trowel / Render Application

1. Mix clean, dry aggregate with **Infinity ROX Bind Vertical Single Part Binder** at recommended ratio
2. Mix until all aggregate is uniformly coated
3. Apply to substrate using:
  - Steel trowel



- Spatula
  - Hand application
4. Press firmly into substrate to ensure good adhesion
  5. Level and shape to desired finish
  6. Avoid overworking surface

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### Layering (If Required)

- For thicker builds, apply in **multiple layers**
- Allow partial cure between layers

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## 10. Drying & Curing

Drying times depend on:

- Temperature
- Humidity
- Airflow
- Thickness of application

### Typical:

- Touch dry: **12–24 hours**
- Light handling: **24–36 hours**
- Full cure: **up to 72 hours**

⚠ Protect from rain, moisture, and contamination during cure.

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## 11. Cleaning

Clean all tools and equipment immediately using:

- **Warm or hot water**

Once cured, the material can only be removed mechanically.



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## 12. Packaging

Available sizes:

- **5 L**
- **10 L**
- **20 L**

(Custom packaging available on request)

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## 13. Storage

- Store in sealed original containers
- Protect from frost
- Keep in cool, dry conditions
- Avoid direct sunlight
- Keep container tightly closed

**Shelf life:** Approx. **12 months unopened**

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## 14. Health & Safety

- Use appropriate PPE (gloves, eye protection, workwear)
  - Avoid contact with skin and eyes
  - Ensure adequate ventilation
  - Keep out of reach of children
  - Refer to **SDS before use**
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## 15. Important Notes

- This is a **decorative vertical system**, not structural
- Always carry out a **test patch**
- Aggregate selection will affect performance and finish



- Environmental conditions will impact cure and adhesion
- Not a replacement for full **2K resin-bound structural systems**

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#### **16. Disclaimer**

The information provided in this Technical Data Sheet is given in good faith and is intended as guidance only. As application conditions, substrates, and materials are outside of our control, Infinity Effects cannot guarantee performance in all situations. It is the responsibility of the user to ensure suitability through testing prior to full application.

