

Infinity ROX Bind Single Part Binder

Technical Data Sheet

1. Product Description

Infinity ROX Bind Single Part Binder is a **single-component, ready-to-use binder** designed to stabilise and bind loose decorative aggregates, gravel, and similar mineral fillers into a permeable surface layer. The product is intended for **landscaping, decorative surfacing, borders, tree pits, pathways, and light pedestrian-use areas** where a simple, easy-to-apply bound stone finish is required.

The binder is supplied as a **one-part liquid** and may be applied by **mix-in, pour-on, or spray-on methods**, depending on aggregate type, substrate, and project requirement. Comparable benchmark products in this category are marketed as **water-based, ready-to-use, and permeable once cured**.

2. Recommended Uses

Infinity ROX Bind Single Part Binder is suitable for:

- **Decorative gravel stabilisation**
- **Garden paths**
- **Borders and planting surrounds**
- **Tree pits**
- **Patios and feature areas**
- **Loose stone areas requiring reduced migration**
- **Light foot traffic surfaces**
- **Domestic and light landscape applications**

This type of single-part binder system is generally positioned for **decorative and pedestrian applications**, not for vehicular loading.

3. Key Features

- **Single-part / ready to use**
- **No on-site catalyst or hardener mixing required**



- **Simple application by pour, spray, or full aggregate mixing**
- **Helps reduce stone movement and scatter**
- **Permeable finish when used over a suitable free-draining base**
- **Suitable for domestic and landscape use**
- **Water-based system style**
- **User-friendly installation**
- **Can assist in reducing moss and algae development by coating and binding surface stones**
Benchmark product literature for this category describes the binder as bonding stones together while remaining permeable and inhibiting moss/algae growth.

4. Typical Areas of Use

- Garden gravel
- Decorative aggregate borders
- Courtyard features
- Pedestrian walkways
- Planter surrounds
- Memorial areas
- Lightweight decorative surfacing projects

5. Limitations

Infinity ROX Bind Single Part Binder is not recommended for:

- **Vehicle traffic**
- **Heavy commercial trafficking**
- **Areas subject to turning tyres**
- **Poorly drained or non-permeable bases**
- **Wet, contaminated, or unstable substrates**
- **Substrates with rising moisture or standing water**



- **Applications where a structural resin bound surfacing system is required**

Comparable public product guidance states that this style of binder is intended for **free-draining surfaces** and is **not intended to carry vehicles**.

6. Technical Information

Typical Properties

Appearance: Milky / translucent liquid, drying clear

Type: Single-part binder

Base chemistry: Water-based binder system style

Application methods: Spray-on / pour-on / mix-in

Viscosity: Low viscosity

Dilution: Not recommended

Substrate requirement: Dry, solid, stable, and free-draining

Drying / cure time: Typically **12–36 hours**, depending on temperature, humidity, film thickness, and airflow

Minimum application temperature: **Above 5°C**

Recommended humidity range: Low to moderate humidity; avoid adverse curing conditions

Clean-up: Hot or very warm water immediately after use

Permeability: Maintains permeability when used with suitable aggregate over a suitable permeable base

These kinds of values are consistent with public technical information available for similar single-part gravel-binding products, including references showing **1–5 mPa·s viscosity, 12–36 hour dry time, minimum 5°C application temperature, no dilution recommended, and dry solid free-draining substrate requirements**.

7. Coverage Guide

Coverage will vary depending on:

- Aggregate size and porosity
- Surface profile
- Method of application
- Depth of stone
- Degree of saturation required



As a general guide, comparable instructions for this product type reference an **overall treated stone depth of approximately 20 mm** for poured/mixed decorative aggregate installations.

Important:

Actual usage rates must be confirmed by **site trial** and may vary significantly depending on the aggregate selected.

8. Substrate Requirements

The substrate must be:

- **Dry**
- **Stable**
- **Solid**
- **Clean**
- **Free from loose debris, dust, algae, oil, grease, and standing water**
- **Permeable / free draining where a permeable finish is required**

Public technical guidance for comparable products specifically states use on **dry, solid, free-draining surfaces**.

9. Surface Preparation

1. Remove all loose contamination, dirt, organic growth, and debris.
 2. Ensure the substrate is dry before application.
 3. Confirm the area is free draining.
 4. Ensure aggregate is clean and, where possible, dry.
 5. Carry out a **test patch** before full installation.
-

10. Application Methods

A. Mix-In Method

Best for new loose aggregates where a more uniform encapsulation is required.

1. Place clean, dry aggregate into a suitable forced-action or paddle mixer.



2. Add **Infinity ROX Bind Single Part Binder** gradually.
3. Mix until the aggregate appears uniformly coated.
4. Pour onto the prepared permeable base.
5. Level and compact using a trowel, float, or suitable board/plank method.
6. Allow to cure fully before use.

B. Pour-On Method

Best for existing decorative gravel areas.

1. Decant product into a suitable watering can or controlled-pour vessel.
2. Pour evenly over the surface.
3. Work the binder through the aggregate where required.
4. Compact lightly to achieve a flatter, more durable finish.
5. Allow to cure undisturbed.

C. Spray-On Method

Best for lighter binding or surface locking applications.

1. Decant product into suitable spray equipment.
2. Apply a controlled, even saturation coat.
3. Avoid over-application and ponding.
4. Allow to dry fully before any trafficking.

11. Drying and Curing

Drying time is affected by:

- Ambient temperature
- Relative humidity
- Airflow
- Binder loading
- Aggregate type
- Surface depth



Under normal conditions, comparable technical sheets indicate a **typical drying time of 12–36 hours**. Lower temperatures, poor airflow, deep sections, or high humidity may significantly extend cure time.

Protect from rain, standing water, and contamination during cure.

12. Cleaning

Clean tools and equipment **immediately after use** with **hot / very warm water** before the binder dries. Similar guidance appears in public technical information for comparable single-part products.

13. Packaging

Available pack sizes may include:

- 5 L
 - 10 L
 - 20 L
-

14. Storage

- Store in original sealed container
- Protect from frost
- Store in a cool, dry environment
- Keep away from direct sunlight and excessive heat
- Keep container tightly closed when not in use

Typical shelf life: up to **12 months unopened** under correct storage conditions. This should be **confirmed by internal stability testing** before final issue.

15. Health & Safety

- For professional and informed user application
- Avoid contact with eyes and prolonged skin contact



- Wear suitable gloves, eye protection, and protective clothing
- Ensure adequate ventilation during use and cure
- Keep out of reach of children
- Refer to the relevant **Safety Data Sheet (SDS)** before use

16. Important Notes

- Carry out a **test area** before full application.
- Aggregate type, depth, porosity, and moisture content will affect performance.
- This product is intended for **light-use decorative aggregate stabilisation** and is **not a substitute for a structural two-component resin bound surfacing binder**.
- Performance is dependent on correct substrate preparation, correct aggregate selection, and suitable weather conditions during installation.
- Do not apply in wet weather, onto damp substrates, or where rain is expected before cure.
- For best results, use only over a **sound, dry, free-draining base**.

7. Coverage & Mixing Ratio Guide

Typical Binder-to-Aggregate Ratio (Guide Only)

The required quantity of **Infinity ROX Bind Single Part Binder** will vary depending on:

- Aggregate size and shape
- Porosity of the stone
- Application method (mix-in, pour-on, or spray)
- Desired strength and finish
- Depth of installation

Mix-In Method (Recommended for Best Performance)

As a general guideline:

- **3% – 7% binder by weight of aggregate**

Example Ratios:

- **25 kg aggregate → 0.75 kg – 1.75 kg binder**



- **100 kg aggregate → 3 kg – 7 kg binder**

✓ Lower ratio (3–4%) → Light binding / decorative stabilisation

✓ Higher ratio (5–7%) → Stronger bond / more durable finish

Pour-On / Spray-On Method

- Typically **lighter usage than full mix-in systems**
- Approximate guide:
- **1 – 2.5 litres per m²** depending on:
 - Stone depth (typically ~15–25 mm)
 - Absorption and compaction
 - Desired level of binding

✓ Spray → Light surface locking

✓ Pour → Deeper penetration and stronger hold

Important Notes

- **Do not over-saturate** — excess binder can lead to:
 - Glossy or plastic-like finish
 - Reduced permeability
 - Extended drying times
- **Do not under-dose** — insufficient binder may result in:
 - Loose stones
 - Poor durability
 - Reduced lifespan
- Always carry out a **test patch** to determine:
 - Exact binder demand
 - Final appearance
 - Required strength



Typical Installation Depth

- Recommended decorative depth: **15–25 mm**
- Maximum performance achieved with:
 - **Clean, dry aggregate**
 - **Free-draining substrate**

