TECHNICAL DATA SHEET

R.S Urethane BLOCKING PRIMER

WATER-BASED

HIGH ADHESION STRONG TANNINS & STAIN BLOCKING HYBRID WATER-BASED URETHANE PRIMER

Developed by Infinity Effects Materials Science Division

THE NEXT GENERATION OF STAIN & TANNIN BLOCKING PRIMER TECHNOLOGY

HIGH-BUILD FORMULATION • SUPERIOR STAIN BLOCKING • EXCEPTIONAL ADHESION



R.S Urethane Blocking Primer is an advanced high-viscosity, high-build water-based urethane primer engineered to deliver exceptional stain, tannin, knot, and discoloration blocking performance.

Designed for superior versatility, it creates a thick, uniform barrier that seals and stabilizes even the most challenging surfaces, ensuring a clean, consistent base for any Infinity Effects system.

Perfect for timber, concrete, MDF, steel, plaster, drywall and more, it grips securely to substrates, helping prevent bleed-through from knots, rust stains, tannins, water marks, and aged surface contamination.

Its dense build fills and levels surface imperfections while providing a durable mechanical bond for both resin and water-based coatings.

Whether used indoors or outdoors, the refined formulation offers strong surface adhesion, improved opacity, and dependable stain-blocking performance across a wide range of applications.

SURFACE PREPARATION

All substrates must be clean, dry and structurally sound:

- Free from dust, grease, oils, curing compounds, loose material and surface contamination
- Lightly sand or mechanically prepare where required to provide a suitable surface profile
- Do not apply in areas of excessive humidity or poor ventilation until adequate drying conditions are available

APPLICATION

- Use with a roller or spray gun.
- Apply a uniform coat ensuring complete coverage.
- Allow to dry fully before overcoating with any Infinity Effects coating system.
- Do not apply if surface, material or ambient temperature is below +5°C or above +30°C.

DRYING TIMES (AT 25°C / 77°F)

- Dried to touch: 1 hour
- Dried completely: 3 hours
- Times may vary depending on temperature, humidity and substrate porosity.

COVERAGE

Coverage will vary depending on substrate condition and porosity. Typically: approx. 8–10 m² per litre.

SAFETY & INFORMATION

- Safety is important. Always refer to the product labels for general safety information and consult the Material Safety Data Sheets (MSDS) for full application and handling instructions.
- For detailed usage guidance or system-specific recommendations, please contact your Infinity Effects representative.

NOTE

- For professional use only.
- All Infinity Effects products are supplied under our Standard Conditions of Sale.
- Results can only be guaranteed for applications explicitly approved in writing by Infinity Effects and the authorised representative.

RECOMMENDED SYSTEM

1. Prepare the substrate.
2. Apply R.S Urethane Blocking Primer.
3. Allow to dry fully.
4. Apply chosen Infinity Effects coating system.

KEY FEATURES

- High-build, high-opacity formulation for maximum stain blocking
- Blocks tannins, knots, rust stains, water marks & discolouration
- Strong adhesion to a wide range of substrates
- Excellent opacity & coverage
- Seals porosity and locks down stains for a clean, consistent base
- Compatible with resin and water-based coating systems
- Interior & exterior use
- Easy application — roller or spray
- Reduces need for multiple topcoat layers
- Improves efficiency, saves time and material

SUITABLE SUBSTRATES

TIMBER · CONCRETE · MDF · STEEL · PLASTER · DRYWALL · PLYWOOD · GALVANISED STEEL · BRICK & MASONRY · MORE

PHYSICAL PROPERTIES

Item	Data
Appearance	Milky, Liquid, water based, non-flammable
Colour	White, Clear
Specific Weight	1.02 kg/L
pH	9
Application	Use with a roller or spray gun
Diluent and Dilution Ratio	No Dilution
Temperature for Application	Min. +5°C / Max. +30°C = Min. +50°F / Max. +86°F
Dried to Touch	1 hour at 25°C = 77°F
Dried Completely	3 hours at 25°C = 77°F
Solid Content	75%
Viscosity	55KU±2

R.S Urethane Blocking Primer delivers a strong, stable base for any Infinity Effects system, ensuring outstanding stain blocking, adhesion and long-term performance across a wide range of professional applications.