TECHNICAL DATA SHEET

R.S Urethane PRIMER/BASE COAT

WATER-BASED

HIGH ADHESION HYBRID WATER-BASED URETHANE PRIMER / BASE COAT RESIN

Developed by Infinity Effects Materials Science Division

THE NEXT GENERATION OF HYBRID WATER-BASED PRIMER & BASE COAT TECHNOLOGY



OVER 1,000 COLOURS AVAILABLE

THROUGH THE INFINITY EFFECTS COLOUR SYSTEM

R.S Urethane Water-Based Primer/Base Coat is a premium two-part hybrid water-based urethane coating engineered to provide exceptional adhesion, durability, and performance across a wide range of residential, commercial, and industrial applications.

Developed using advanced acrylic emulsion and hybrid urethane technology, this next-generation coating combines the strength and chemical resistance of traditional two-component systems with the environmental benefits of a modern water-based formulation. The result is a high-performance coating that delivers outstanding durability while remaining extremely low in VOCs and safer for both installers and the environment.

Designed as both a high-adhesion primer and durable base coat, R.S Urethane Water-Based Primer/Base Coat bonds aggressively to concrete, timber, plywood, MDF, steel, aluminium, galvanised metal, PVC, fibreglass, countertops, engineered boards, previously coated surfaces, and many other prepared substrates.

Whether used as the foundation of the complete R.S coating system or as a standalone industrial coating, it provides outstanding adhesion, excellent flexibility, superior weather resistance, and exceptional long-term colour stability.

Available in Clear, White, Black, and over 1,000 custom colours, R.S Urethane Water-Based Primer/Base Coat offers complete design flexibility while delivering the durability professionals demand.

SURFACE PREPARATION

All substrates must be:

- Clean, dry and structurally sound
- Free from dust, grease, oils, curing compounds and contamination
- Lightly sanded or mechanically prepared 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.

MIXING INSTRUCTIONS

- Pour the entire contents of Part B into Part A.
- Mix thoroughly for 2–3 minutes using a slow-speed drill fitted with a suitable mixing paddle until a completely uniform consistency is achieved.
- Where thinning is required for spray application, use Deionised (DI) Water only.

> **For best results, add any DI Water to Part A before introducing Part B.**

- Avoid introducing excessive air during mixing.

APPLICATION

R.S Urethane Water-Based Primer/Base Coat can be applied using:

Brush → Roller → Airless Spray

Apply a thin, even coat while working the material into all pinholes and surface imperfections to achieve complete coverage.

Avoid excessive film build, as this may reduce performance or increase drying times.

Highly porous substrates may require an additional coat to achieve complete sealing before applying subsequent R.S coating systems.

OVERCOATING

- Additional coats may be applied once the surface is touch dry.
- If the maximum overcoat window has been exceeded, lightly abrade the surface before applying further coats to ensure optimum adhesion.

RECOMMENDED SYSTEM

1. Prepare the substrate.
2. Apply R.S Urethane Water-Based Primer/Base Coat.
3. Apply a second coat where required to fully seal porous substrates.
4. Finish with R.S Urethane Water-Based Topcoat for maximum durability, UV resistance and long-term protection.

KEY FEATURES

- Advanced Hybrid Water-Based Urethane Technology
- Functions as both a Primer and Base Coat
- Exceptional adhesion to difficult substrates
- Suitable for interior and exterior use
- Extremely low VOC formulation
- Outstanding weather and UV resistance
- Excellent flexibility and impact resistance
- High chemical and stain resistance
- Brush, Roller or Airless Spray Application
- Available in over 1,000 custom colours

COMMON APPLICATIONS

- CONCRETE FLOORS & WALLS
- TIMBER & PLYWOOD
- MDF & ENGINEERED BOARDS
- COUNTERTOPS & WORKTOPS
- STEEL & STRUCTURAL STEEL
- ALUMINIUM & GALVANISED STEEL
- PVC & COMPOSITE MATERIALS
- FIBREGLASS
- DECORATIVE COATING SYSTEMS
- INDUSTRIAL & COMMERCIAL APPLICATIONS

TECHNICAL SPECIFICATIONS

Property	Specification
Product Type	Two-Part Hybrid Water-Based Acrylic Urethane Primer/Base Coat
Mix Ratio	See Product Label
Hardener	R.S Urethane Hardener
Resin Density	1.10 kg/L
Coverage	Approximately 10 m²/L (depending on substrate porosity)
Minimum Recoat Time	30 Minutes
Maximum Recoat Window	36 Hours
Thinning	DI Water (If required)
Finish Options	Gloss, Satin or Matt
Colours	Clear, White, Black & 1,000+ Custom Colours
Pack Sizes	1L, 5L
Shelf Life	6–12 Months (Unopened)
Storage	Store in original unopened containers in cool, dry conditions

R.S Urethane Water-Based Primer/Base Coat has been engineered to provide exceptional adhesion, long-term durability and outstanding versatility across virtually any properly prepared substrate. Combining advanced hybrid urethane technology with over 1,000 colour options, it delivers the ideal foundation for the complete R.S water-based coating system while offering professional-grade performance in even the most demanding commercial and industrial environments.