TECHNICAL DATA SHEET

R.S URETHANE WATER-BASED CATALYST

CURE-CONTROL ACCELERATOR

Professional Cure-Control Technology for the Next Generation of Water-Based Coating Systems.

Developed by Infinity Effects Materials Science Division

PRODUCT DESCRIPTION

R.S Urethane Water-Based Catalyst is a professional-grade cure-control accelerator developed specifically for the Infinity Effects R.S Urethane Water-Based coating system.

Engineered using advanced catalyst technology, it provides precise control over curing speed, allowing installers to accelerate the chemical reaction of both R.S Urethane Water-Based Primer / Base Coat and R.S Urethane Water-Based Topcoat without compromising adhesion, durability or long-term coating performance.

Whether working in cold weather, fast-track commercial installations or projects requiring rapid return to service, R.S Urethane Water-Based Catalyst enables contractors to optimise cure times while maintaining the exceptional finish and protection expected from the Infinity Effects coating system.

The catalyst has been formulated to produce predictable, repeatable results across a wide range of application temperatures, giving professional installers complete confidence on every project.



INSTRUCTIONS FOR USE

Always perform a small trial mix before commencing the main application to establish the ideal catalyst dosage for the prevailing site conditions.

1. Determine the required catalyst addition based on the ambient temperature and desired curing speed. Recommended dosage: 0.1%–2.0% of the total mixed coating weight.
2. Add the measured quantity of catalyst directly into Part A of the selected R.S Urethane Water-Based coating.
3. Mix thoroughly using a mechanical mixer until the catalyst is completely dispersed throughout Part A.
4. Once fully blended, add Part B and mix according to the standard product mixing instructions.
5. Apply immediately using the recommended spray equipment. Catalyst-modified material should not be left standing for extended periods once mixed.

IMPORTANT NOTES

- Do not exceed the maximum recommended dosage.
- Excess catalyst may significantly reduce working time.
- Higher temperatures naturally accelerate curing and may require lower catalyst additions.
- Lower temperatures may require increased catalyst dosage within the recommended limits.
- Always conduct a small test area before full application.

STORAGE

Store in the original unopened container in a cool, dry, well-ventilated location.

Protect from:

- Direct sunlight
- Frost
- Excessive heat
- Moisture contamination

Always reseal containers immediately after use.

APPLICATION EQUIPMENT

Recommended application method:

- HVLP Spray Gun
- Air-Assisted Spray Equipment
- Conventional Spray Equipment

Not recommended for roller application, as catalyst-accelerated material may begin curing before adequate levelling occurs, potentially causing texture variation or surface defects.

HEALTH & SAFETY

Refer to the latest Safety Data Sheet (SDS) before handling or use.

- Wear appropriate personal protective equipment including safety glasses, chemical resistant gloves and protective clothing.
- Ensure adequate ventilation during mixing and spraying.
- Avoid contact with eyes and prolonged skin exposure.
- Keep out of reach of children.

TECHNICAL SUPPORT

Infinity Effects Technical Services can provide assistance with:

- Catalyst dosage recommendations
- Cold weather application guidance
- Cure time optimisation
- Product compatibility
- Spray equipment setup
- Large commercial project specifications
- Technical data and installation support

KEY FEATURES & BENEFITS

- Precision cure-control technology
- Adjustable cure speed
- Accelerates curing in cold conditions
- Reduces overall installation time
- Faster return to service
- Low dosage requirements
- Designed for professional applicators
- Preserves mechanical strength
- Retains chemical resistance
- Compatible with all R.S Urethane Water-Based systems
- Professional spray application
- Easy dosing and mixing
- Suitable for year-round installations

RECOMMENDED USES

DESIGNED EXCLUSIVELY FOR USE WITH:

- **R.S Urethane Water-Based Primer / Base Coat**
- **R.S Urethane Water-Based Topcoat**

SUITABLE FOR APPLICATIONS INCLUDING:

- DECORATIVE CONCRETE FLOORS
- INDUSTRIAL FLOORS
- COMMERCIAL FLOORS
- GARAGE FLOORS
- COUNTERTOPS
- FURNITURE
- CABINETRY
- TIMBER
- MDF
- WALLS
- ARCHITECTURAL FEATURES
- COMMERCIAL & RESIDENTIAL PROJECTS

HOW IT WORKS

R.S Urethane Water-Based Catalyst modifies the curing reaction of the coating system by accelerating the polymer cross-linking process.

By carefully adjusting the catalyst dosage, installers can tailor working and curing times to suit ambient temperatures, project requirements and installation schedules.

This allows greater flexibility during application while maintaining the coating's original performance characteristics when used within the recommended dosage range.

TYPICAL TECHNICAL PROPERTIES

Property	Typical Value
Product Type	One-Part Cure Accelerator
Technology	Water-Based Cure-Control Additive
Appearance	Clear Liquid
Compatible Products	R.S Urethane Water-Based Primer / Base Coat & Topcoat
Recommended Dosage	0.1%–2.0% of total mixed system weight
Mixing Stage	Add to Part A before introducing Part B
Application Method	Spray Application
VOC Content	Low VOC
Colour	Clear
Pack Size	1 Litre
Shelf Life	6 Months (Unopened)
Storage Temperature	Below 30ºC
Storage Conditions	Cool, dry, frost-free environment

ORDERING INFORMATION

R.S Urethane Water-Based Catalyst is available in:
1 LITRE BOTTLE

For technical advice, installation guidance, product compatibility or distributor information, please contact your local Infinity Effects representative.

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