INFINITY EFFECTS

SURFACES FOR A BETTER TOMORROW

INNOVATION
DURABILITY
AESTHETICS
SUSTAINABILITY

PROFESSIONAL COATING SOLUTIONS

R.S WATER-BASED URETHANE UPVC INSTALL SYSTEM

PROFESSIONAL INSTALLATION GUIDE

SYSTEM 2 | UPVC WINDOWS, DOORS, FRAMES, PANELS & TRIMS



2K WATER-BASED HYBRID SYSTEM

A professional water-based urethane coating system developed for the decorative refinishing and restoration of correctly prepared UPVC and PVC surfaces.

Designed for residential, commercial and hospitality applications where excellent adhesion, durability, stain resistance and a smooth professional decorative finish are required.

- Excellent adhesion to UPVC & PVC surfaces
- Low VOC, low odour water-based formula
- Durable, stain resistant & long-lasting finish

DURABLE | **STAIN RESISTANT** | **PROFESSIONAL FINISH** | **WATER-BASED**

UPVC WINDOWS | DOORS | FRAMES | PANELS | TRIMS | SMOOTH NON-POROUS PVC SURFACES

SCAN FOR LATEST TDS, SDS & SUPPORT

AVAILABLE FINISHES

GLOSS | SATIN | MATT

AVAILABLE IN 1000+ COLOURS

GLOSS | SATIN | MATT

CERTIFIED INSTALLERS | **WARRANTIED SYSTEM** | **PROFESSIONAL FINISH** | **GLOBAL SUPPLY**

Warrantied when installed by an Infinity Certified Installer, subject to system requirements.

REFRESH. RECOLOUR. RESTORE.

System Overview

Infinity Effects R.S Water-Based Urethane UPVC Install System – 2 is a professional coating system designed for the refurbishment, restoration and decorative colour change of correctly prepared UPVC/PVC surfaces.

The supplied system guidance covers windows, doors and other smooth, non-porous horizontal and vertical PVC surfaces and is intended for residential, commercial and hospitality applications.



RESTORE THE SURFACE. TRANSFORM THE COLOUR. EXTEND ITS LIFE.

DESIGNED FOR

Professional UPVC refinishing where an existing surface is to be restored or recoloured without replacing the complete window, door, frame or component.

Critical Installation Parameters

GET IT RIGHT
FOR A PROFESSIONAL FINISH

Surface condition	Clean, dry, sound and free from contamination
Cleaning	Thoroughly clean and degrease
Rinsing	Remove all cleaner/degreaser residue
Mechanical key	240–400 grit or higher where sanding is used
Adhesion preparation	Fusion Pre-Primer / Degreaser V2 where required
Masking	Protect glass, seals, gaskets, hardware and adjacent surfaces
Application	Spray, roller or brush according to supplied system guidance
Spray pressure	3–4 Bar
Nozzle	1.2–1.8 mm
Application temperature	10–25°C
Moisture exposure	Avoid until coating layers have cured
Warranty	Subject to certified installation and system requirements

System Build-Up

A COMPLETE
REFINISHING SYSTEM

1 SUBSTRATE



Existing sound UPVC/PVC surface.

2 CLEAN & DEGREASE



Remove grime, oils, grease, fingerprints and contamination.

3 MECHANICAL PREPARATION



Light abrasion where required to remove gloss and create a mechanical key.

4 ADHESION PREPARATION



Infinity Fusion Pre-Primer / Degreaser V2 where required.

5 COLOUR COATING



R.S Water-Based Urethane Primer/Basecoat Pigmentable.

6 CURE & INSPECTION



Protect the coating during cure and inspect the completed finish.

Materials, Tools & Site Setup

RIGHT TOOLS
BETTER RESULTS

Prepare the complete UPVC spraying setup before coating begins. Correct organisation, masking and contamination control are essential to achieving a clean, uniform professional finish.

ESSENTIAL MATERIALS & TOOLS

COATING MATERIALS

- Infinity Effects R.S Water-Based Urethane Primer/Basecoat Pigmentable
- Infinity Fusion Pre-Primer / Degreaser V2 where required

CLEANING & PREPARATION

- Suitable cleaner
- Degreaser
- Clean water
- Clean lint-free cloths
- Microfibre drying towels
- Fine-grit abrasive
- Clean damp cloths
- Clean dry towels

MASKING & PROTECTION

- High-quality painter's/masking tape
- Plastic sheeting
- Drop cloths
- Suitable surrounding-surface protection

APPLICATION EQUIPMENT

- Suitable professional spray equipment
- Clean spray gun/cup
- Roller or brush where appropriate to the application

PPE

- Protective gloves
- Safety goggles
- Suitable dust mask/respirator where required

OPTIONAL EQUIPMENT

- Power washer
- Spray shield
- Spray tent
- Spray booth

PREPARE. PLAN. PROTECT.

HAVING EVERYTHING READY BEFORE COATING HELPS MAINTAIN A CLEAN, CONSISTENT WORKFLOW AND PROFESSIONAL FINISH.



SITE RULE

- Keep the work area clean and protected from airborne contamination.
- Protect surrounding surfaces before spraying.
- When working indoors, ensure suitable ventilation.
- When working externally, consider the surrounding environment and protect adjacent surfaces from overspray.

CLEAN ENVIRONMENT
= BETTER FINISH

PREPARE THE AREA BEFORE YOU PREPARE THE COATING.

Stage 1 — UPVC Cleaning & Surface Preparation

Correct preparation is essential for adhesion, appearance and long-term coating performance.

01 SAFETY FIRST



Before beginning work:

- Wear safety goggles
- Wear protective gloves
- Use suitable respiratory protection where required
- Ensure adequate ventilation
- Protect surrounding areas

02 REMOVE LOOSE DEBRIS



Remove:

- Dust
- Dirt
- Loose particles
- Debris from profiles
- Contamination from corners and edges

Pay particular attention to grooves, profiles and difficult-to-access areas.

03 CLEAN & DEGREASE



Thoroughly wash the UPVC using a suitable cleaner/degreaser.

Remove:

- Oils
- Fingerprints
- Environmental grime
- Grease
- General dirt
- Stubborn contamination

Work methodically across the complete surface.

04 RINSE THOROUGHLY



Rinse with clean water.

ALL CLEANER AND DEGREASER RESIDUE MUST BE REMOVED.

Residual cleaning products can interfere with subsequent adhesion preparation. Detergent residue may interfere with Fusion Promoter bonding.

05 DRY COMPLETELY



Dry using clean lint-free cloths or microfibre towels.

The substrate must be completely dry before further preparation.

DO NOT PROCEED

If the surface remains:

- DIRTY
- GREASY
- WET
- CONTAMINATED
- UNSOUND
- IMPROPERLY PREPARED

PREPARE CORRECTLY COAT WITH CONFIDENCE

Stage 2 — Mechanical Preparation & Protection

UPVC requires careful preparation. Avoid unnecessarily aggressive abrasion that could damage the substrate.

01 INSPECT THE UPVC



Check the complete surface before coating.

Look for:

- Surface damage
- Existing contamination
- Scratches
- Defects
- Residual dirt
- Silicone contamination
- Failed or unsuitable existing coatings
- Areas requiring additional preparation

02 LIGHTLY ABRADE WHERE REQUIRED



Lightly sand all areas using **240–400 GRIT OR HIGHER.**

Light abrasion may be used to:

- Create a mechanical key
- Improve long-term adhesion
- Remove minor gloss

⚠ DO NOT OVER-SAND THE UPVC.

Excessive sanding may damage the surface.

03 REMOVE SANDING RESIDUE



Remove all sanding dust.

Clean with a suitable damp cloth where required and follow with a clean dry towel.

No loose sanding residue should remain.

04 MASK & PROTECT



Protect all areas that are not being coated. Pay particular attention to:

- Glass
- Rubber seals
- Gaskets
- Hinges
- Hardware
- Drainage channels
- Adjacent cladding
- Surrounding trims
- Walls
- Floors
- Fixtures

Use high-quality masking tape to achieve clean edges.

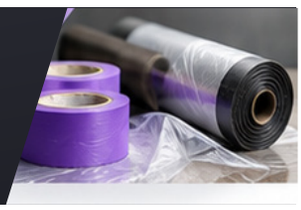
Press tape correctly into corners and profiles to minimise bleed-through.

Protect larger areas using plastic sheeting, masking film or suitable drop cloths.

KEY POINT

PROTECT BEFORE YOU SPRAY

Accurate masking is part of the finished installation—not simply site preparation.



Stage 3 — Adhesion Preparation

Infinity Fusion Pre-Primer / Degreaser V2

Where required, **Infinity Fusion Pre-Primer / Degreaser V2** is used as the final adhesion-preparation stage before application of the R.S Urethane coating.
The supplied UPVC guide describes this stage as **optional but recommended.**



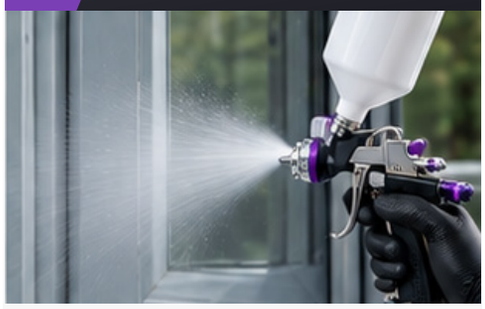
01 FINAL INSPECTION



Before application, ensure the UPVC is:

CLEAN | DRY | SOUND | PREPARED | FREE FROM DUST | FREE FROM CONTAMINATION

02 APPLY FUSION



Apply a fine mist across the prepared UPVC surface.

Avoid excessive application.

03 WIPE EVENLY



Immediately wipe the product evenly across the surface using a clean cloth.

Ensure consistent treatment across the complete area.

04 ALLOW TO DRY



Allow the treated surface to dry fully before continuing.

This creates a bonding layer for the UPVC.

05 INSPECT



Check for:

- Missed areas
- Contamination
- Streaks
- Surface imperfections
- Areas requiring correction

Correct any defects before coating.

CRITICAL

DO NOT CONTAMINATE THE PREPARED SURFACE AFTER FINAL PREPARATION.

Keep dirty gloves, silicone products, oils and contaminated cloths away from prepared surfaces.

CLEAN PREPARATION
STRONG FOUNDATION
PROFESSIONAL FINISH

Stage 4 — Prepare & Apply R.S Urethane Colour Coat

Infinity Effects **R.S Water-Based Urethane Primer/Basecoat Pigmentable** forms the decorative coating stage of the UPVC system.

01 PREPARE MATERIAL



Mix the coating gently until:

- Pigment is fully dispersed
- Colour is uniform
- Consistency is smooth
- No unmixed material remains

Avoid unnecessary aeration or bubbles.

⚠ DO NOT OVER-MIX.

These are the preparation requirements given in the supplied UPVC guide.

SYSTEM NOTE:

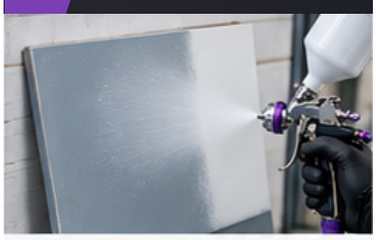
The supplied UPVC document does not provide the full 2K component ratio, catalyst dosage, DI-water adjustment procedure or pot life. Those values should therefore be taken from the current individual R.S Urethane product TDS rather than invented in this system guide.

R.S URETHANE SPRAY SETTINGS

PRESSURE	3 – 4 BAR
NOZZLE	1.2 – 1.8 MM
ADDITIVES	10-15% DI WATER



02 TEST SPRAY



Before coating the complete installation, carry out a test application to confirm:

- Compatibility
- Adhesion
- Colour
- Spray pattern
- Material delivery
- Finish quality

03 SPRAY PROFILES & EDGES

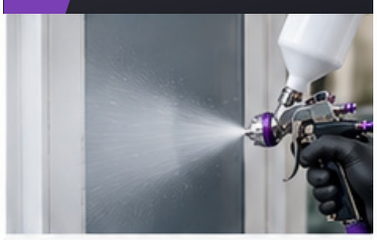


Begin with:

- Corners
- Profiles
- Recesses
- Edges
- Detailed sections

Avoid excessive material accumulation.

04 APPLY MAIN AREAS

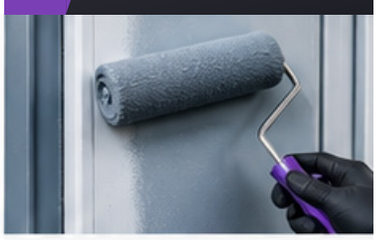


Apply controlled overlapping passes. Maintain consistent:

- Gun distance
- Gun angle
- Travel speed
- Overlap
- Material delivery

Work systematically from top to bottom where appropriate.

05 BUILD COVERAGE



Apply even coverage without:

- Heavy wet areas
- Dry edges
- Excessive film build
- Uneven opacity
- Runs or sags

Apply using spray, roller or brush. Ensure no roller lines, no dry edges and complete opacity.

SMOOTH APPLICATION
UNIFORM COLOUR
PROFESSIONAL RESULTS



Stage 5 — Cure & Complete

Correct handling during the early cure period is essential to protecting the newly coated UPVC.

01 ALLOW COATING TO DRY



Leave coated surfaces undisturbed.

Avoid:

- Touching
- Abrasion
- Moisture
- Premature handling
- Contamination

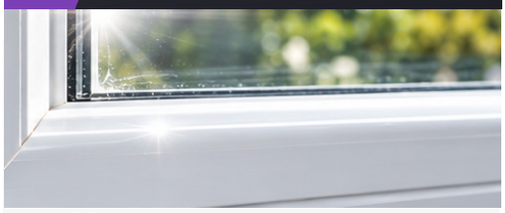
02 ADDITIONAL COATS



Where additional opacity or film build is required, further coats may be applied.

Allow each coat to dry before applying the next.

03 PROTECT DURING CURE



Avoid:

- MOISTURE
- CONTACT
- IMPACT
- ABRASION
- PREMATURE CLEANING

Do not allow surrounding work to contaminate freshly coated surfaces.

04 REMOVE MASKING CAREFULLY



Remove masking in a controlled manner to maintain clean edges.

Take particular care around:

- Glass
- Seals
- Gaskets
- Profiles
- Hinges
- Drainage areas
- Adjacent finishes

05 FINAL INSPECTION



Inspect the finished installation under good lighting.

Check for:

- Missed areas
- Inconsistent sheen
- Surface imperfections
- Clean masking lines
- Complete opacity
- Uniform colour
- Runs or sags
- Contamination

Perform appropriate corrections where necessary.

ENVIRONMENTAL GUIDANCE

The supplied UPVC guide specifies:

APPLICATION TEMPERATURE:

10 – 25°C

Avoid moisture until all coating layers have cured.

Do not use silicone-containing cleaners.



PATIENCE PROTECTS PERFORMANCE

- ALLOW IT TO DRY.
- PROTECT THE FINISH.
- INSPECT BEFORE HANDOVER.

Troubleshooting & Common Issues

Identify the likely cause and correct the underlying issue before proceeding.

01 POOR ADHESION



Possible Cause

Inadequate cleaning, contamination or insufficient preparation.

Solution

Clean and degrease thoroughly. Where mechanical abrasion is being used, prepare the surface correctly and remove all residue. Use the specified Fusion preparation stage where required.

02 UNEVEN FINISH



Possible Cause

Inconsistent application technique.

Solution

Maintain consistent spray:

- Distance
- Speed
- Angle
- Overlap
- Material delivery

03 WHITENING / HAZING



Possible Cause

Subsequent coating applied before the preceding layer has dried sufficiently.

Solution

Increase drying time and ensure the preceding layer is ready before recoating.

04 PEELING



Possible Cause

Surface contamination from oils, grease or remaining detergent.

Solution

Remove the failed coating as required and thoroughly prepare, rinse and dry the substrate before recoating.

05 RUNS / SAGS



Possible Cause

Excessive material build or inconsistent spray movement.

Solution

Use controlled overlapping passes and avoid excessive wet-film build.

06 POOR MASKING EDGES



Possible Cause

Incorrect masking, coating build across tape edges or uncontrolled removal.

Solution

Use suitable high-quality masking materials, ensure tape is firmly positioned and remove carefully.

INSTALLER TIP

- PREPARATION CONTROLS ADHESION.
- APPLICATION CONTROLS APPEARANCE.
- CURING PROTECTS PERFORMANCE.



Frequently Asked Questions

Troubleshooting & FAQs

01 WHY IS THOROUGH CLEANING SO IMPORTANT?



UPVC can carry oils, grease, fingerprints, environmental grime and cleaner residue.

These contaminants can interfere with adhesion and must be removed before coating.

02 DO I HAVE TO SAND UPVC?



Abrasion is optional and specifies light sanding using 240–400 grit or higher when this preparation method is used.

Its purpose is to create a mechanical key, improve long-term adhesion and remove minor gloss.

Avoid over-sanding the UPVC.

03 IS FUSION PRE-PRIMER / DEGREASER V2 REQUIRED?



Fusion Pre-Primer / Degreaser V2 is optional but recommended.

Where used, apply a fine mist, wipe evenly with a clean cloth and allow it to dry fully before proceeding.

04 WHAT SPRAY SETUP SHOULD I USE?



PRESSURE	3 – 4 BAR
NOZZLE	1.2 – 1.8 MM
ADDITIVES	10-15% DI WATER

05 WHAT TEMPERATURE SHOULD I APPLY THE SYSTEM AT?



The supplied installation guidance specifies an application temperature of

10 – 25°C

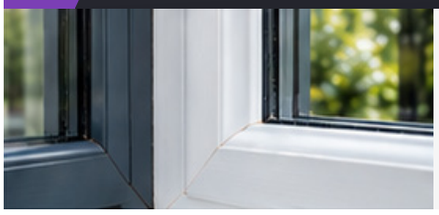
06 WHAT SHOULD BE MASKED?



Protect all areas that are not being coated. Pay particular attention to:

- Glass
- Seals
- Gaskets
- Hinges
- Hardware
- Drainage channels
- Surrounding trims
- Adjacent finishes
- Walls and floors
- Other surfaces

07 WHAT ARE THE MAIN REQUIREMENTS FOR A PROFESSIONAL UPVC FINISH?



Correct cleaning + Complete rinsing + Correct preparation + Contamination control + Controlled application + Adequate drying and curing

PREPARATION IS JUST AS IMPORTANT AS SPRAYING TECHNIQUE.



Installer Notes & Disclaimers



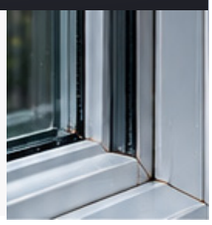
Important information for professional installers to help achieve the intended appearance, adhesion, durability and performance of the Infinity Effects **R.S Water-Based Urethane UPVC Install System – 2.**

01 INSTALLER RESPONSIBILITY

It is the responsibility of the installer to determine whether the existing UPVC/PVC substrate is suitable for refinishing.

Inspect all surfaces before work begins.

Unsound, damaged, contaminated or otherwise unsuitable substrates must be corrected before coating.

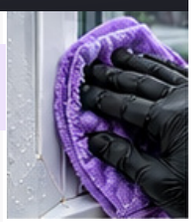


01 SURFACE PREPARATION

All surfaces must be:

SOUND | CLEAN | DRY | DEGREASED PROPERLY PREPARED | FREE FROM CONTAMINATION

Do not apply over grease, oil, silicone, detergent residue, loose coatings, dirt or other contamination that may interfere with adhesion.



01 CLEANING & RINSING

Thoroughly remove cleaning products and degreaser residues.

Residual detergent may interfere with subsequent adhesion preparation.

Allow surfaces to dry completely before proceeding.

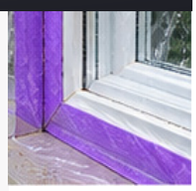


01 MASKING & PROTECTION

Protect:

- Glass • Rubber seals • Gaskets
- Hardware • Drainage channels
- Adjacent trims • Surrounding substrates

Ensure overspray cannot contaminate surrounding property or completed surfaces.



01 MIXING & APPLICATION

Always follow the specified:

- Product component ratios
- Mixing procedure
- Catalyst procedure where applicable
- Viscosity adjustment procedure where applicable
- Spray setup · Application technique
- Drying/recoat requirements
- Current individual product TDS

DO NOT ASSUME COMPONENT RATIOS OR ADDITIVE LEVELS. REFER TO THE CURRENT PRODUCT TDS.



01 TEST APPLICATION

Carry out a test area before full application to confirm:

- Compatibility
- Adhesion
- **Colour**
- **Spray setup**
- Finish quality
- Substrate suitability



01 ENVIRONMENT & CURING

The supplied installation range is:

10 – 25°C

Environmental conditions can affect drying and curing.
Protect freshly coated UPVC from moisture and premature contact until adequately cured.



01 BATCH CONTROL

Colour variation may occur between production batches.

Where multiple batches are required on one project, appropriate batch management should be used to minimise visible variation.



01 SAFETY

Use suitable PPE and maintain adequate ventilation during preparation and coating.

Always consult the current individual product TDS **and SDS** before use.



01 WARRANTY

The supplied system guidance states that the system is warrantied when installed by an Infinity Certified Installer.

Warranty remains subject to current Infinity Effects system requirements, substrate suitability and correct installation procedures.



CRITICAL SYSTEM GUIDELINES

01 CLEAN — Remove dirt, grease, oils and contamination.

02 RINSE — Remove all cleaner and detergent residue.

03 PREPARE — Create the required surface preparation without damaging the UPVC.

04 PROTECT — Mask glass, seals, hardware and surrounding areas.

05 APPLY — Use controlled, consistent application techniques.

06 CURE — Protect the finished coating from moisture, abrasion and premature handling.

FAILURE TO FOLLOW THE CORRECT SYSTEM PROCEDURE MAY RESULT IN:

POOR ADHESION | PEELING | HAZING | UNEVEN FINISH | SURFACE DEFECTS | COLOUR INCONSISTENCY | REDUCED PERFORMANCE | VOIDED WARRANTY