RIYA STONE
SPECIALITY CHEMICALS

# ESPLENDIDO™ SILANSTOP
## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 – SURFACE PROTECTION**

TECHNICAL DATA SHEET (TDS)


EXCELLENT PROTECTION | WATER RESISTANT | CRACK BRIDGING | EASY APPLICATION | WATERPROOF BARRIER | IMPROVES DURABILITY

## 1 Product Description

Esplendido SilanStop™ After Coat 2K System is a high-performance two-component reinforced surface protection and waterproofing base system engineered to enhance substrate durability, improve waterproofing reliability, and provide reinforced crack-bridging protection for cementitious construction surfaces.
The system is specifically designed to function as Step 2 of the Esplendido SilanStop™ Dual Protection System, following application of Esplendido SilanStop™ internal moisture-control treatment.

In practical construction conditions, many waterproofing and coating failures occur not only because of external water exposure, but also due to:

- Internal moisture activity within the substrate
- Substrate instability
- Minor surface cracking
- Salt-related deterioration
- Poor adhesion between waterproofing systems and the substrate
- Thermal movement and weather exposure

Conventional surface coatings often fail when applied directly over moisture-active or unstable substrates without proper internal moisture stabilization and surface reinforcement.

Esplendido SilanStop™ After Coat 2K System is engineered to address these practical site challenges by forming a reinforced protective layer over stabilized substrates.

The system creates a continuous protective coating that helps:

- Improve substrate integrity
- Reduce water ingress
- Improve resistance against positive-side water exposure conditions
- Enhance adhesion of waterproofing systems
- Provide crack-bridging support for minor non-structural cracks
- Improve durability of coating and waterproofing layers
- Stabilize the surface before final waterproofing or decorative systems

Unlike ordinary waterproof coatings that mainly provide surface coverage, the Esplendido SilanStop™ After Coat 2K System is designed as a performance-enhancing intermediate reinforcement layer within a complete multi-layer waterproofing system.

The system is particularly suitable for:

- Terrace waterproofing systems
- Damp wall rehabilitation
- Cement plaster and concrete surfaces
- Waterproofing base preparation
- Moisture-affected substrates
- Crack-prone surfaces
- Exterior exposure conditions

The system is particularly suitable for terrace and exterior waterproofing applications where substrates are subjected to positive-side water exposure caused by rainwater, ponding water, and environmental conditions.

When used together with Esplendido SilanStop™, the overall system helps provide both:

- **Step 1 – Internal Moisture & Salt Movement Control** (Esplendido SilanStop™)
- **Step 2 – Reinforced Surface Protection & Waterproofing Base Layer** (Esplendido SilanStop™ After Coat 2K System)

This integrated approach helps improve long-term waterproofing durability, coating performance, substrate stability, and overall system reliability under practical construction conditions.
The system is compatible with:

- PU waterproofing systems
- Acrylic waterproofing coatings
- Putty and paint systems
- Cementitious finishing systems
- Terrace waterproofing applications

Esplendido SilanStop™ After Coat 2K System is formulated to provide a durable reinforced base layer that enhances the overall performance of subsequent waterproofing and finishing systems.

## 2 Mechanism of Action

The performance of Esplendido SilanStop™ After Coat 2K System is based on its ability to form a reinforced protective layer that improves substrate stability, enhances waterproofing compatibility, and helps accommodate minor surface movement within cementitious structures.
After proper mixing of Part A and Part B, the system forms a polymer-modified reinforced coating matrix capable of bonding strongly with prepared mineral substrates.

Upon application, the material develops a continuous protective layer over the substrate surface that helps:

- Reduce external water ingress
- Improve surface durability under positive-side water exposure conditions
- Improve substrate cohesion
- Enhance adhesion of subsequent waterproofing systems
- Reinforce weak or moisture-affected surfaces
- Provide crack-bridging support for minor non-structural movement

Unlike conventional rigid coatings that may fail under substrate movement or moisture-related stress, the reinforced polymer-modified structure of the After Coat 2K System helps improve flexibility and durability under practical exposure conditions.

The system functions as an intermediate reinforcement layer between the stabilized substrate and the final waterproofing or finishing system.

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When applied over Esplendido SilanStop™ treated substrates, the overall mechanism becomes significantly more effective because:

- Internal moisture activity has already been reduced
- Capillary moisture movement is stabilized
- Salt migration and efflorescence risk are minimized
- Surface conditions become more suitable for reinforced coating application

This integrated substrate stabilization and reinforcement approach helps reduce common causes of waterproofing failure such as:

- Coating debonding
- Blistering due to trapped moisture
- Surface cracking
- Waterproofing membrane failure
- Paint and putty deterioration

The crack-bridging characteristics of the system help accommodate minor non-structural movement caused by:

- Thermal expansion and contraction
- Surface shrinkage
- Minor substrate stress

In terrace systems, the reinforced protective layer acts as a durable waterproofing support base that enhances adhesion and long-term performance of PU and acrylic waterproofing systems exposed to positive-side water exposure and environmental stress conditions.

## 3 Why This System Is Necessary

In practical waterproofing applications, many coating and waterproofing failures occur because waterproofing systems are directly applied over unstable, moisture-active, or poorly prepared substrates.

Even when high-quality waterproofing coatings are used, long-term failures may still occur due to:

- Internal moisture movement beneath coatings
- Weak substrate integrity
- Surface cracking
- Thermal movement
- Poor bonding between layers
- Salt-related deterioration
- Moisture pressure buildup beneath waterproofing membranes

In terrace systems, cement plaster, screed, china mosaic, and concrete substrates are continuously exposed to:

- Rainwater
- Positive-side water exposure
- Thermal stress
- Expansion and contraction cycles
- Water ponding conditions
- UV and environmental exposure

Over time, these conditions can create:

- Micro-cracks
- Surface weakness
- Waterproofing debonding
- Leakage recurrence
- Coating deterioration

Similarly, in damp wall applications, internal moisture activity and salt migration may weaken the substrate and reduce adhesion of paint, putty, and protective coatings.

Conventional waterproof coatings often focus mainly on surface coverage and may not provide sufficient substrate reinforcement or compatibility with moisture-active surfaces.

As a result:

- ✓ Waterproofing systems may fail prematurely
- ✓ Paint and putty may blister or peel
- ✓ Surface cracks may reappear
- ✓ Leakage problems may continue beneath coatings

Esplendido SilanStop™ After Coat 2K System is designed specifically to address these practical construction problems by functioning as a reinforced surface protection and waterproofing support layer within a complete integrated system.

The system helps:

- ✓ Improve substrate stability before waterproofing application
- ✓ Reinforce weak cementitious surfaces
- ✓ Provide crack-bridging protection
- ✓ Improve bonding between substrate and waterproofing systems
- ✓ Improve durability under positive-side water exposure conditions
- ✓ Reduce stress concentration beneath coatings
- ✓ Improve long-term waterproofing reliability

When used together with Esplendido SilanStop™ internal moisture-control treatment, the complete Dual Protection System provides a more stable and technically compatible waterproofing base.

This integrated system approach helps:

- ✓ Reduce moisture-related coating failures
- ✓ Improve adhesion of PU and acrylic waterproofing systems
- ✓ Enhance terrace waterproofing durability
- ✓ Improve paint and finishing performance
- ✓ Reduce recurrence of leakage and dampness problems

The Esplendido SilanStop™ Dual Protection System is therefore designed not merely as a coating solution, but as an advanced substrate stabilization and multi-layer waterproofing performance system for long-term protection under practical site conditions.

## 4 System Concept (Dual Protection System)

Esplendido SilanStop™ After Coat 2K System is designed to function as an integral part of the Esplendido SilanStop™ Dual Protection System, where both internal substrate stabilization and reinforced surface protection work together to improve overall waterproofing reliability and long-term system durability.

The Dual Protection System is engineered to address two major causes of waterproofing and coating failure in practical construction conditions:

Internal moisture activity and salt migration within the substrate
Surface deterioration caused by external exposure, thermal stress, and water ingress
Rather than depending only on surface coatings, the system follows a multi-layer protection approach that improves both substrate condition and waterproofing compatibility.

**Step 1 – Esplendido SilanStop™**
Internal Moisture Control & Anti-Efflorescence Layer
The first stage of the system focuses on stabilizing the substrate internally by reducing capillary moisture activity and dissolved salt movement.

Key Functions:

- Deep penetration into capillary pore structure
- Reduction in internal moisture movement
- Reduction in capillary water absorption
- Control of salt migration and efflorescence formation
- Stabilization of moisture-active substrates
- Preparation of substrate prior to reinforced surface treatment

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This stage helps create a more technically suitable and stable substrate for subsequent waterproofing and finishing applications.

**Step 2 – Esplendido SilanStop™ After Coat 2K System**
Reinforced Surface Protection & Waterproofing Base Layer
The second stage focuses on reinforcing and stabilizing the substrate surface prior to final waterproofing or decorative systems.

Key Functions:
- Formation of a reinforced protective layer
- Improvement of substrate cohesion and integrity
- Crack-bridging support for minor non-structural movement
- Improvement in adhesion of waterproofing systems
- Enhancement of durability under positive-side water exposure conditions
- Creation of a stable base for PU, acrylic, putty, and paint systems

This stage acts as an intermediate reinforcement and waterproofing support layer within the complete system.
Application Approach Based on Use Case

Terrace Waterproofing Applications
In terrace systems, substrates are commonly exposed to:

- Rainwater and positive-side water exposure
- Thermal expansion and contraction
- Ponding water conditions
- UV and environmental stress
- Moisture ingress through pores and micro-cracks

## 5 Key Performance Features

- High-performance reinforced surface protection system
- Two-component polymer-modified waterproofing base layer
- Designed as Step 2 of the Esplendido SilanStop™ Dual Protection System
- Improves substrate stability and cohesion
- Reinforces moisture-affected and weak cementitious surfaces
- Provides crack-bridging support for minor non-structural cracks
- Enhances adhesion of PU and acrylic waterproofing systems
- Improves durability of putty, paint, and coating systems
- Helps reduce waterproofing debonding and blistering
- Suitable for terrace and exterior waterproofing systems
- Improves performance under positive-side water exposure conditions
- Supports long-term waterproofing durability
- Improves compatibility between substrate and finishing systems
- Suitable for cement plaster, concrete, screed, and masonry substrates
- Helps create a stable and reinforced waterproofing base layer
- Compatible with multi-layer waterproofing systems
- Suitable for both rehabilitation and preventive waterproofing applications

## 6 Reinforced Surface Protection & Crack-Bridging Technology

Esplendido SilanStop™ After Coat 2K System is engineered using a reinforced polymer-modified coating technology designed to improve surface durability, substrate integrity, and waterproofing compatibility under practical construction conditions.

Unlike conventional rigid surface coatings that may fail under substrate movement, thermal stress, or moisture-related deterioration, the After Coat 2K System forms a reinforced protective layer capable of accommodating limited non-structural surface movement while maintaining coating continuity.

The reinforced structure of the system helps:
- ✓ Improve cohesion of weak cementitious surfaces
- ✓ Distribute minor surface stress more effectively
- ✓ Reduce localized stress concentration beneath waterproofing layers
- ✓ Improve bonding performance of subsequent coatings and membranes
- ✓ Enhance durability under environmental exposure conditions
- ✓ Crack-Bridging Function

In practical construction conditions, minor surface movement may occur due to:

- Thermal expansion and contraction
- Drying shrinkage
- Surface stress
- Minor substrate settlement
- Environmental exposure conditions

Rigid coatings without flexibility or reinforcement characteristics may develop:

- Surface cracking
- Waterproofing debonding
- Coating failure
- Water ingress through micro-cracks

The Esplendido SilanStop™ After Coat 2K System is designed to provide crack-bridging support for minor non-structural cracks and movement, thereby helping improve the long-term durability of the waterproofing system.

The system does not function as a structural crack repair material; however, it helps improve surface continuity and reduce the impact of minor substrate movement beneath subsequent waterproofing layers.

Waterproofing Support Layer Technology

The After Coat 2K System functions as a reinforced intermediate layer between the substrate and the final waterproofing membrane.
This intermediate reinforcement layer helps:
- ✓ Improve adhesion of PU and acrylic waterproofing systems
- ✓ Improve substrate compatibility with waterproofing membranes
- ✓ Reduce risk of coating failure caused by weak surfaces
- ✓ Improve long-term waterproofing performance
- ✓ Improve durability under positive-side water exposure conditions

In terrace waterproofing systems, this reinforced support layer becomes particularly important because waterproofing membranes are continuously subjected to:

- Rainwater exposure
- Water ponding conditions
- Thermal cycling
- UV exposure
- Environmental stress conditions

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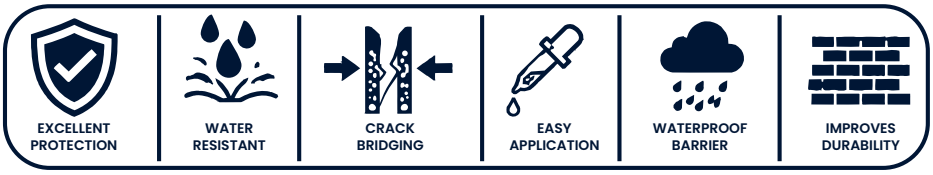



By reinforcing the substrate surface before final waterproofing application, the system helps create a more stable and technically reliable waterproofing base.

Role Within the Dual Protection System

Within the Esplendido SilanStop™ Dual Protection System:

**Esplendido SilanStop™**
helps stabilize the substrate internally by reducing moisture and salt movement.

**Esplendido SilanStop™ After Coat 2K System**
helps reinforce and stabilize the surface prior to waterproofing and finishing applications.

Together, the system provides a more balanced moisture-management and waterproofing approach that improves:

- Waterproofing durability
- Coating performance
- Surface stability
- System compatibility
- Long-term reliability under practical site conditions

## 7 Difference Between Conventional Waterproof Coatings & Esplendido SilanStop™ After Coat 2K System

In practical construction conditions, conventional waterproof coatings are often applied directly over cementitious substrates without adequate substrate stabilization or reinforcement. While such coatings may initially provide surface protection, long-term failures may occur due to weak substrate conditions, surface movement, poor adhesion, and moisture-related stress.

Esplendido SilanStop™ After Coat 2K System is engineered as a reinforced waterproofing support and substrate stabilization layer designed to improve overall waterproofing reliability and coating durability within a complete multi-layer system.

The following comparison highlights the functional and system-level differences between ordinary waterproof coatings and the Esplendido SilanStop™ After Coat 2K System.

| Parameter | Conventional Waterproof Coatings | Esplendido SilanStop™ After Coat 2K System |
|---|---|---|
| System Approach | Primarily surface-level coating | Reinforced waterproofing base and surface protection system |
| Substrate Reinforcement | Usually limited | Improves substrate cohesion and stability |
| Crack-Bridging Support | Limited or dependent on coating type | Reinforced crack-bridging support for minor non-structural movement |
| Waterproofing Compatibility | May vary depending on substrate condition | Designed to improve compatibility with PU and acrylic waterproofing systems |
| Moisture-Active Substrates | May fail on unstable or moisture-affected surfaces | Designed for use over stabilized substrates within a dual protection system |
| Adhesion Performance | May reduce over weak or deteriorated surfaces | Improves adhesion of subsequent waterproofing and finishing systems |
| Surface Stability | Limited substrate stabilization | Creates reinforced and stabilized waterproofing base |
| Positive-Side Water Exposure | Performance depends on coating quality | Designed to improve durability under positive-side water exposure conditions |
| Waterproofing Reliability | Surface performance dependent | Multi-layer system performance enhancement approach |
| System Durability | May reduce under thermal stress and movement | Improved durability under practical exposure conditions |
| Role in Waterproofing System | Final coating layer | Intermediate reinforcement and waterproofing support layer |
| Long-Term Performance | Dependent on substrate condition and application quality | Improves overall system durability and reliability |

System Positioning

Esplendido SilanStop™ After Coat 2K System is not intended to function merely as a surface coating. It is designed as a reinforced intermediate layer within a technically integrated waterproofing system.

When used together with Esplendido SilanStop™ internal moisture-control treatment, the overall system helps provide:
- Improved substrate stabilization
- Better waterproofing compatibility
- Enhanced adhesion performance
- Reinforced surface durability
- Improved long-term waterproofing reliability

This integrated system approach helps reduce common causes of waterproofing failure associated with unstable or moisture-active substrates.

## 8 Technical Characteristics

Esplendido SilanStop™ After Coat 2K System is formulated as a two-component polymer-modified reinforced coating system designed for surface stabilization, waterproofing compatibility enhancement, and reinforced protective performance on cementitious substrates.

The system is engineered to provide strong substrate bonding, improved surface integrity, and enhanced durability under practical exposure conditions.

### 8.1 Physical Properties

| Property | Part A – Powder Component | Part B – Liquid Component | Mixed Material |
|---|---|---|---|
| Appearance | Fine Powder | Milky Liquid | Smooth polymer modified coating mix |
| Colour | Grey / | White | Grey |
| Odour | Cementitious | Mild characteristic | |
| Consistency | Mild characteristic | | Brushable / coatable consistency |

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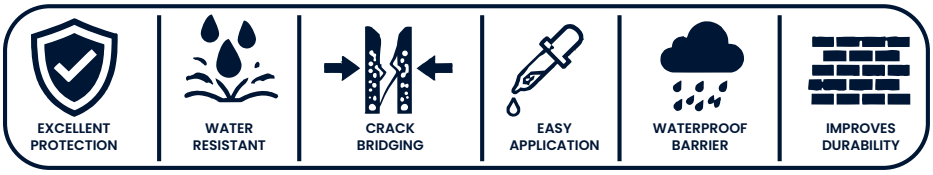



**8.2 Functional Characteristics**

- Reinforced polymer-modified coating system
- Designed for surface stabilization and waterproofing base preparation
- Crack-bridging support for minor non-structural movement
- Improves adhesion of waterproofing systems
- Enhances substrate cohesion and integrity
- Improves durability under positive-side water exposure conditions
- Suitable for terrace and exterior waterproofing systems
- Compatible with PU and acrylic waterproofing systems
- Designed as part of a multi-layer waterproofing approach

**8.3 Mixing Ratio**

Recommended Mixing Ratio:

Part A : Part B = 2 : 1 (by weight)

The material should be mixed thoroughly until a uniform lump-free consistency is achieved.

**8.4 Compatibility**

Compatible with:

- Cement plaster substrates

## 9 Performance & Test Methods

Esplendido SilanStop™ After Coat 2K System has been evaluated using relevant laboratory, field-simulated, and system-performance test methods to assess its behaviour in terms of adhesion, crack-bridging support, durability, waterproofing compatibility, and surface reinforcement performance.
The evaluations are intended to assess the system under practical construction and environmental exposure conditions.

**9.1 Performance Test Summary**

| Test Parameter | Test Method / Standard | Result Summary |
|---|---|---|
| Adhesion Strength | ASTM D4541 / Pull-Off Adhesion | Improved bonding performance on cementitious substrates |
| Crack-Bridging Support | Internal system evaluation / cyclic movement assessment | Supports minor non-structural crack movement |
| Water Resistance | Accelerated water exposure evaluation | Improved surface resistance under positive-side water exposure |
| Surface Cohesion Improvement | Internal substrate evaluation | Improved substrate integrity and cohesion |
| Waterproofing Compatibility | System evaluation with PU & acrylic systems | Improved compatibility and adhesion performance |
| Wet–Dry Cycling | Accelerated cyclic exposure evaluation | Maintains performance under repeated wetting and drying conditions |
| Thermal Exposure Resistance | Thermal cycling evaluation | Stable performance under expansion and contraction conditions |
| Abrasion & Surface Durability | Internal durability assessment | Improved durability of reinforced protective layer |
| Alkali Resistance | ASTM D1308 | No adverse effect under alkaline cementitious conditions |
| UV & Weathering Resistance | ASTM G154 | Stable performance under simulated environmental exposure |
| Coating Compatibility | System evaluation | Compatible with subsequent coating and finishing systems |
| System Durability | Long-term field simulation | Consistent performance under practical service conditions |
| Terrace Waterproofing Support Performance | Integrated system evaluation | Improved waterproofing system reliability and durability |
| Dual Protection System Compatibility | System evaluation with Esplendido SilanStop™ | Improved integrated system performance |

**9.2 Performance Overview**

Based on the above evaluations, Esplendido SilanStop™ After Coat 2K System demonstrates:

- Improved substrate cohesion and stability
- Reinforced crack-bridging support for minor surface movement
- Improved adhesion of waterproofing systems
- Enhanced compatibility with PU and acrylic waterproofing membranes
- Improved durability under positive-side water exposure conditions
- Stable performance under thermal cycling and environmental exposure
- Improved surface durability for terrace and exterior applications
- Enhanced waterproofing system reliability when used as part of a multi-layer system

**9.3 System-Level Performance**

When used as part of the Esplendido SilanStop™ Dual Protection System:

- Internal moisture activity is reduced through Step 1 treatment
- Surface reinforcement is provided through Step 2 application
- Waterproofing compatibility is improved
- Adhesion of subsequent systems is enhanced
- Risk of waterproofing debonding and coating failure is reduced
- Long-term waterproofing durability is improved under practical site conditions

This integrated system approach helps create a more technically stable waterproofing base compared to conventional surface-only coating systems.

## 10 Recommended Substrates

Esplendido SilanStop™ After Coat 2K System is suitable for application on properly prepared mineral-based construction substrates where reinforced surface protection and waterproofing base stabilization are required.

The system is designed primarily for cementitious and masonry substrates used in terrace waterproofing, damp wall rehabilitation, exterior protection, and waterproofing preparation applications.

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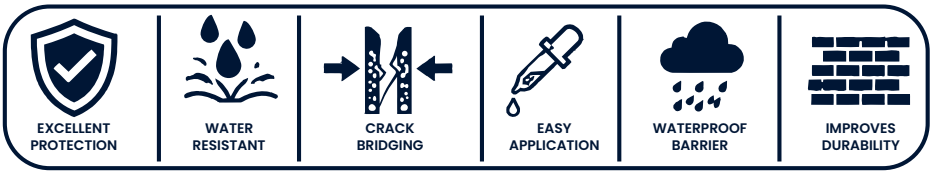



**10.1 Cementitious & Masonry Substrates**
Suitable substrates include:

- Cement plaster surfaces
- Concrete substrates
- RCC slabs and roof surfaces
- Cementitious screeds and leveling layers
- Brick masonry and block work
- Cement-based renders
- Sand-cement plaster systems

These substrates are suitable for reinforced surface stabilization and waterproofing support applications.

**10.2 Terrace & Waterproofing Substrates**
The system is particularly suitable for:

- Terrace waterproofing preparation
- Roof slab waterproofing systems
- Screed-based terrace systems
- Cement plastered terrace surfaces
- Waterproofing base reinforcement applications
- Exterior exposure conditions

The system helps improve substrate integrity and waterproofing compatibility before application of final waterproofing membranes.

**10.3 Moisture-Affected & Rehabilitated Surfaces**
**Suitable for:**

- Damp wall rehabilitation systems
- Moisture-affected plaster surfaces
- Crack-prone cementitious surfaces
- Previously weakened substrates after proper preparation
- Waterproofing repair and rehabilitation applications

**10.4 Compatible System Applications**
Suitable for use prior to:

- PU waterproofing systems
- Acrylic waterproofing coatings
- Putty and paint systems
- Cementitious finishing systems
- Multi-layer waterproofing systems

**10.5 Substrate Condition Requirements**
**For proper performance:**

- Surface must be clean and structurally sound
- Loose or deteriorated material must be removed
- Surface contaminants must be eliminated
- Cracks and damaged areas should be repaired before application
- Surface should be properly prepared to ensure adequate bonding
- Proper substrate preparation is essential for achieving optimum system
- performance and long-term durability.

## 11 Application Areas & Use Cases

Esplendido SilanStop™ After Coat 2K System is designed for use in a wide range of waterproofing, substrate stabilization, and protective coating applications where reinforced surface preparation and long-term waterproofing durability are required.

The system is particularly suitable for cementitious and masonry substrates exposed to moisture, environmental stress, thermal movement, and positive-side water exposure conditions.

**11.1 Terrace Waterproofing Systems**
The system is highly suitable as a reinforced waterproofing support layer in:

- Cement plastered terraces
- RCC roof slabs
- Screed-based terrace systems
- Waterproofing rehabilitation applications

PU and acrylic waterproofing preparation systems
In terrace applications, the system helps:

- Improve substrate integrity before waterproofing
- Enhance adhesion of waterproofing membranes
- Reduce risk of coating debonding
- Improve waterproofing durability under practical exposure conditions

Recommended System Sequence:

Esplendido SilanStop™
↓
Esplendido SilanStop™ After Coat 2K System
↓
PU / Acrylic Waterproofing System

**11.2 Damp Wall Rehabilitation Systems**
Suitable for:

- Damp internal walls
- Moisture-affected plaster surfaces
- Efflorescence-prone walls
- Paint failure rehabilitation systems
- Surface stabilization before repainting
- The system helps improve substrate condition before application of putty and paint systems.

Recommended System Sequence:

Esplendido SilanStop™
↓
Esplendido SilanStop™ After Coat 2K System
↓
Putty / Primer / Paint System

**11.3 Waterproofing Base Preparation Applications**
The system can be used as a reinforced surface preparation layer prior to application of:

- PU waterproofing systems
- Acrylic waterproofing coatings
- Protective elastomeric coatings
- Cementitious finishing systems
- The reinforced intermediate layer helps improve bonding and compatibility between the substrate and final waterproofing membrane.

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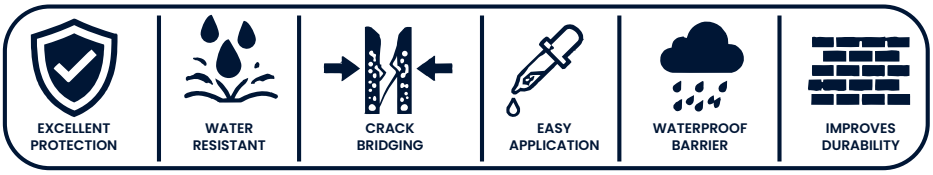



**11.4 Exterior Exposure Applications**
Suitable for:

- Exterior cement plaster surfaces
- Concrete facades
- Exposure-prone walls
- External waterproofing preparation systems

The system helps improve durability under:

- Rainwater exposure
- Positive-side water exposure conditions
- Thermal cycling
- Environmental stress

**11.5 Crack-Prone Cementitious Surfaces**
Suitable for cementitious substrates susceptible to:

- Minor non-structural cracking
- Thermal expansion and contraction
- Surface shrinkage movement
- Environmental exposure stress
- The crack-bridging characteristics of the system help improve continuity and waterproofing base stability.

**11.6 Rehabilitation & Repair Applications**
Suitable for:

- Waterproofing rehabilitation systems
- Coating failure repair systems
- Surface stabilization of deteriorated cementitious substrates
- Re-waterproofing applications after substrate preparation
- The system helps improve the technical condition of the substrate prior to final waterproofing application.

## 12 Surface Preparation

Proper surface preparation is essential to achieve optimum adhesion, reinforcement performance, and long-term durability of the Esplendido SilanStop™ After Coat 2K System.

Inadequate preparation may reduce bonding performance and overall system effectiveness.

**12.1 General Requirements**

- Surface must be clean, sound, and structurally stable
- Substrate should be free from loose or deteriorated material
- All contaminants that may affect adhesion must be removed
- Surface preparation should ensure adequate mechanical bonding conditions

**12.2 Removal of Existing Coatings & Weak Layers**
**Remove:**

- Loose paint layers
- Putty and weak coatings
- Dust and friable material
- Cement laitance
- Oil, grease, wax, and contaminants
- Unsound waterproofing layers

Mechanical methods such as:

- Grinding
- Wire brushing
- Scraping
- Surface abrasion
- May be used where necessary.

**12.3 Surface Cleaning**
The substrate should be cleaned thoroughly to remove:

- Dust and loose particles
- Efflorescence deposits
- Surface contaminants
- Debris and construction residue

Cleaning methods may include:

- Mechanical cleaning
- Air blowing or vacuum cleaning
- Water washing followed by proper drying

**12.4 Crack & Repair Treatment**
Before application:

- Repair cracks, voids, and damaged areas
- Treat weak zones appropriately
- Ensure repaired areas are compatible and properly cured
- Structural cracks should be repaired using suitable structural repair systems prior to application.

**12.5 Surface Condition**
For proper application:

- Surface should be slightly damp or SSD (Saturated Surface Dry) where required for cementitious bonding
- No standing water should be present
- Surface should not be waterlogged
- Avoid application on unstable or weak substrates

**12.6 Preparation Over Esplendido SilanStop™ Treated Surfaces**
When used as part of the Dual Protection System:

- Ensure Esplendido SilanStop™ treatment has completed recommended penetration and stabilization duration
- Ensure treated surface is suitable for coating application
- Follow recommended intercoat interval before application of After Coat 2K System

**12.7 Surface Uniformity**
Ensure:

- Uniform substrate condition
- Consistent absorption behaviour
- Proper repair of damaged zones
- Elimination of loose or unstable areas
- Proper surface preparation significantly improves system durability and waterproofing performance.

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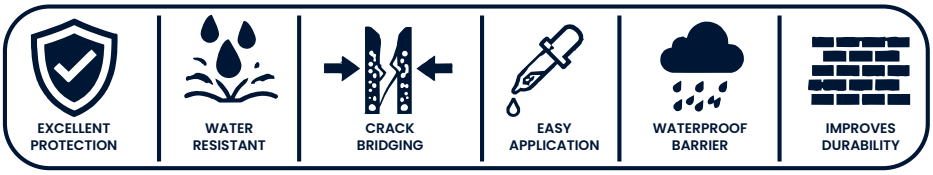



## 13 Mixing Procedure

Esplendido SilanStop™ After Coat 2K System is supplied as a two-component system consisting of:
**Part A:** Powder Component
**Part B:** Liquid Polymer Component

Proper mixing is essential to achieve optimum coating consistency, reinforcement performance, and adhesion characteristics.

**13.1 Recommended Mixing Ratio**
Part A : Part B = 2 : 1 (By Weight)

The recommended ratio should be maintained for proper system performance.

**13.2 Mixing Procedure**

**Step 1**
Pour the required quantity of Part B liquid component into a clean mixing container.

**Step 2**
Gradually add Part A powder component into the liquid while continuously mixing.

**Step 3**
Mix thoroughly using:
Slow-speed mechanical mixer or Proper manual mixing tools until a uniform lump-free consistency is achieved.

**13.3 Mixing Duration**
Typically: 3–5 minutes of continuous mixing is recommended
Ensure:

Uniform dispersion of polymer and cementitious components
No dry powder pockets
Smooth workable consistency

**13.4 Pot Life**
The mixed material should be used within its workable pot life under normal ambient conditions.
Pot life may vary depending on:

- Temperature
- Humidity
- Site conditions
- Avoid using material that has started hardening or losing workability.

**13.5 Mixing Precautions**

- Do not add excessive water
- Do not alter recommended mixing ratio
- Use clean tools and containers
- Mix only the quantity that can be applied within workable time
- Avoid contamination during mixing
- Proper mixing is essential for achieving optimum adhesion, crack-bridging support, and waterproofing performance.

## 14 Application Method

Esplendido SilanStop™ After Coat 2K System should be applied uniformly to achieve proper surface reinforcement, coating continuity, and waterproofing support performance.

The application method should ensure complete coverage and adequate bonding with the prepared substrate.

**14.1 Application Tools**
Suitable application tools include:

- Brush
- Trowel
- Roller
- Spatula
- Appropriate coating application tools

Tool selection may vary depending on:
- Surface condition
- Area size
- Application requirement
- Desired finish profile

**14.2 Application Procedure**

**Step 1**
Ensure the substrate has been properly prepared.

**Step 2**
Prepare the material according to the recommended mixing procedure.

**Step 3**
Apply the first coat uniformly over the substrate surface.

**Step 4**
Ensure proper contact and bonding with the substrate.

**Step 5**
Apply additional coat(s) where required after appropriate interval.

**14.3 Number of Coats**
Typically: 2 coats are recommended for most applications

Additional coats may be required depending on:
- Exposure conditions
- Surface condition
- Waterproofing system requirement

**14.4 Coat Application Direction**
For multi-coat applications: Apply subsequent coats perpendicular to the previous coat direction where practical

- This helps improve:
- Uniform coverage
- Surface continuity
- Reinforcement consistency

**14.5 Application Thickness**
Application thickness should be maintained uniformly to avoid:
- Surface cracking due to excessive thickness
- Uneven curing
- Localized weak zones

# ESPLENDIDO™ SILANSTOP
## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 - SURFACE PROTECTION**

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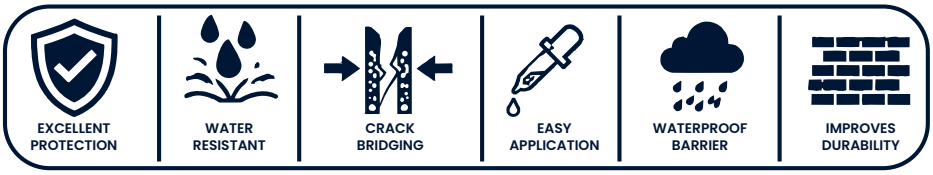



**14.6 Reinforcement Integration (Where Required)**
For critical waterproofing applications, suitable reinforcement mesh or fabric may be incorporated where specified by the system design.

This may further improve:
- Crack-bridging support
- Waterproofing durability
- Surface reinforcement performance

**14.7 Post-Application Protection**
After application:

- Protect surface from rain during initial curing
- Avoid mechanical damage
- Avoid premature water exposure
- Ensure proper curing conditions

## 15 Coverage

The coverage of Esplendido SilanStop™ After Coat 2K System depends on:
- Surface texture
- Substrate condition
- Surface roughness
- Application thickness
- Number of coats applied
- Method of application

**15.1 Typical Coverage Range**
Approximate coverage:

1.0 – 1.5 kg per m²
(For two-coat application depending on surface condition)

Actual consumption may vary depending on substrate characteristics and system requirements.

**15.2 Factors Affecting Coverage**
Coverage may vary due to:

- Surface porosity
- Roughness and texture
- Presence of repairs or irregularities
- Application thickness
- Surface absorption characteristics
- Reinforcement mesh incorporation (if used)

**15.3 Practical Recommendation**
For accurate estimation:
- Conduct site trial application before large-scale use
- Determine actual consumption under project conditions
- Consider additional material allowance for rough or repaired surfaces
- Proper coverage and uniform application are important for achieving optimum reinforcement and waterproofing support performance.

## 16 Drying & Curing Time

Proper drying and curing are essential to achieve optimum adhesion, reinforcement performance, crack-bridging behaviour, and long-term waterproofing durability of the Esplendido SilanStop™ After Coat 2K System.

Drying and curing time may vary depending on:

- Ambient temperature
- Relative humidity
- Surface condition
- Air circulation
- Application thickness
- Site exposure conditions

**16.1 Initial Surface Dry Time**
Typically:

**Approx. 2–4 hours**
under normal ambient conditions.

**During this stage:**
Surface becomes touch dry

**Initial film formation begins**
Early bonding develops

**16.2 Recoat Interval**
Typically:

**Approx. 4–8 hours**
between coats depending on environmental conditions.

Ensure: Previous coat has sufficiently stabilized before reapplication
Surface is not excessively wet or uncured

**16.3 Final Curing Time**
Recommended:
Minimum 24–48 hours

before application of subsequent waterproofing or finishing systems.
This curing duration helps:

- Improve polymer-cement interaction
- Enhance bonding performance
- Improve surface reinforcement characteristics
- Achieve better coating continuity and durability

**16.4 Waterproofing System Application Interval**
Before application of:
- PU waterproofing systems
- Acrylic waterproofing coatings
- Putty or paint systems
ensure recommended curing duration has been completed.

# ESPLENDIDO™ SILANSTOP
## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 - SURFACE PROTECTION**

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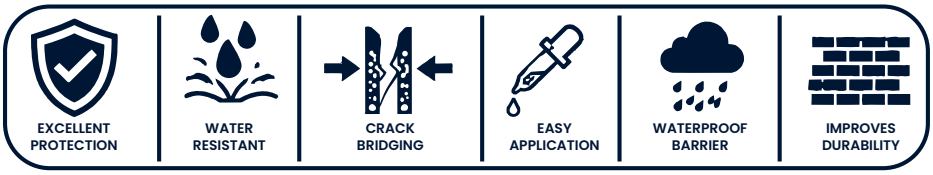



**16.5 Factors Affecting Drying & Curing**
Drying and curing may be influenced by:

- Low temperature conditions
- High humidity levels
- Reduced ventilation
- Excessive application thickness
- Water exposure during curing
- Dense or low-absorption substrates

Under adverse conditions, additional curing time may be required.

**16.6 Curing Precautions**
During curing:

- Protect from rain and direct water exposure
- Avoid mechanical damage
- Avoid heavy traffic or abrasion
- Maintain stable curing conditions where practical

Proper curing significantly improves long-term waterproofing support performance and coating durability.

## 17 Application Conditions

Esplendido SilanStop™ After Coat 2K System should be applied under suitable environmental and site conditions to ensure optimum bonding, curing, and reinforcement performance.

Improper application conditions may adversely affect:

- Adhesion performance
- Surface continuity
- Curing behaviour
- Long-term waterproofing durability

**17.1 Recommended Temperature Range**
Recommended application temperature: +5°C to +35°C

Avoid application under:

- Extremely low temperatures
- Excessive heat conditions
- Rapid drying environments

**17.2 Surface Conditions**
Before application:
Surface should be structurally sound
Surface should be properly prepared
No standing water should be present
Surface should not be unstable or contaminated

For cementitious bonding:
SSD (Saturated Surface Dry) condition may be maintained where required

**17.3 Weather Conditions**
Do not apply during:

- Rainfall
- Active water exposure
- Strong wind conditions
- Extreme direct sunlight where rapid drying may occur
- Avoid application if rain is expected during the initial curing period.

**17.4 Ventilation Requirements**
For enclosed areas:
Ensure adequate ventilation during application and curing
Avoid conditions causing prolonged moisture retention

**17.5 Environmental Exposure Conditions**
In terrace and exterior applications:

- Protect freshly applied material from premature exposure
- Avoid early water ponding during curing stage
- Ensure stable site conditions during initial performance development

**17.6 General Application Precautions**

- Follow recommended mixing ratio
- Use clean application tools
- Avoid contamination during application
- Apply uniformly across the substrate
- Follow recommended system sequence within the Dual Protection System

Proper application conditions are important for achieving optimum surface reinforcement and waterproofing system performance.

## 18 Limitations

While Esplendido SilanStop™ After Coat 2K System is designed to improve substrate stability and waterproofing performance, the following limitations should be considered to ensure proper system selection and application.

**18.1 Structural Limitations**

- Not intended as a structural repair material
- Not designed for major structural crack repair
- Not suitable for repairing active structural movement joints
- Large cracks and damaged areas should be repaired separately using appropriate repair systems

**18.2 Waterproofing System Limitations**

- Designed as a reinforced waterproofing support and intermediate protection layer
- Not intended to replace complete waterproofing systems where dedicated waterproofing membranes are required
- Final waterproofing layer may still be necessary depending on exposure and project requirements

**18.3 Substrate Limitations**

- Not suitable for weak or unstable substrates without proper preparation
- Not suitable over contaminated or poorly bonded surfaces
- Existing loose coatings must be removed before application

**18.4 Application Limitations**

- Do not apply during rain or active water exposure
- Do not apply on waterlogged surfaces
- Avoid excessive application thickness
- Improper mixing may affect system performance

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# ESPLENDIDO™ SILANSTOP
## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 - SURFACE PROTECTION**

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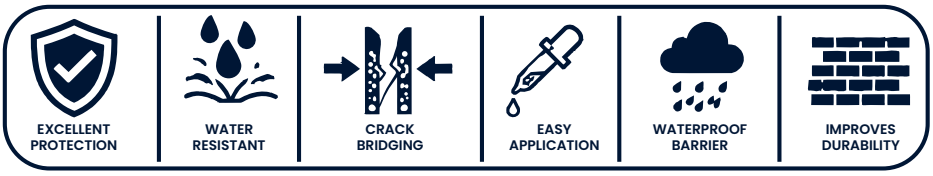



**18.5 Movement Limitations**
- Designed for minor non-structural crack-bridging support only
- Does not compensate for major substrate movement or structural instability

**18.6 System Requirement**
For optimum performance:

- Recommended to be used as part of the Esplendido SilanStop™ Dual Protection System
- Proper substrate preparation and system sequencing are essential

Final waterproofing or finishing system selection should be based on project exposure conditions and technical requirements

## 19 System Benefits

Esplendido SilanStop™ After Coat 2K System provides multiple performance advantages by improving substrate stability, waterproofing compatibility, and surface reinforcement within multi-layer waterproofing applications.

The system is engineered to function as a reinforced waterproofing support layer that enhances the overall durability and reliability of subsequent systems.

**19.1 Surface Reinforcement Benefits**
- Improves cohesion of cementitious substrates
- Reinforces weak or moisture-affected surfaces
- Improves substrate continuity and integrity
- Provides stable base for waterproofing application

**19.2 Crack-Bridging Benefits**
- Supports minor non-structural movement
- Helps reduce stress concentration beneath waterproofing layers
- Improves continuity of coating systems
- Reduces risk of surface-related waterproofing failure

**19.3 Waterproofing Compatibility Benefits**
- Improves adhesion of PU waterproofing systems
- Enhances compatibility with acrylic waterproofing coatings
- Improves bonding performance between substrate and waterproofing membrane
- Helps reduce waterproofing debonding risk

**19.4 Terrace Waterproofing Benefits**
When used within terrace waterproofing systems:
- Improves waterproofing base stability
- Enhances durability under positive-side water exposure conditions
- Supports long-term waterproofing reliability
- Improves performance under thermal and environmental exposure conditions

**19.5 Damp Wall Rehabilitation Benefits**
In damp wall systems:
- Improves substrate condition before finishing
- Helps improve durability of putty and paint systems
- Reduces moisture-related coating deterioration risk
- Improves finishing system performance

**19.6 System-Level Benefits**
When used together with Esplendido SilanStop™:
- Internal moisture stabilization is combined with reinforced surface protection
- Waterproofing compatibility is improved
- Multi-layer system performance is enhanced
- Long-term waterproofing reliability is improved
- Overall substrate stabilization and protection performance is enhanced

## 20 Storage & Shelf Life

Proper storage is important to maintain the quality, workability, and performance characteristics of Esplendido SilanStop™ After Coat 2K System.

**20.1 Storage Conditions**
Store in:
- Cool, dry, and well-ventilated area
- Protected indoor storage conditions
- Moisture-free environment

**Protect from:**
- Direct sunlight
- Rain and moisture exposure
- Excessive heat conditions

**20.2 Temperature Range**
Recommended storage temperature:+5°C to +35°C

Avoid:
- Extreme temperature fluctuations
- Freezing conditions
- Excessive heat exposure

**20.3 Packaging Protection**
- Keep containers tightly sealed when not in use
- Store Part A and Part B in original unopened packaging
- Avoid contamination during storage and handling

**20.4 Handling Practices**
- Store materials in upright position
- Avoid damage to packaging
- Use clean tools during material handling
- Prevent moisture ingress into powder component

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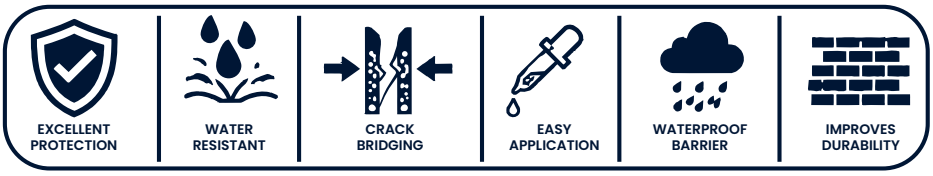
# ESPLENDIDO™ SILANSTOP
## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 – SURFACE PROTECTION**

TECHNICAL DATA SHEET (TDS)





**20.5 Shelf Life**
Approx. 12 months from date of manufacture
When stored in:

- Original unopened packaging
- Recommended storage conditions

**Shelf life may reduce if materials are exposed to:**

- Moisture contamination
- Extreme environmental conditions
- Improper storage practices

Proper storage helps maintain optimum system performance and workability characteristics.

## 21 Safety Information

Esplendido SilanStop™ After Coat 2K System should be handled in accordance with standard industrial safety practices and good construction site procedures.

Proper handling, application practices, and use of appropriate personal protective equipment (PPE) are recommended during mixing and application.

**21.1 General Precautions**
Avoid direct contact with eyes and skin
Avoid inhalation of dust during mixing of powder component
Use appropriate PPE during handling and application
Ensure adequate ventilation during application in enclosed areas
Wash hands thoroughly after handling

**21.2 Personal Protective Equipment (PPE)**
Recommended PPE may include:

- Protective gloves
- Safety goggles or eye protection
- Protective clothing where required
- Dust mask during powder handling and mixing operations

**21.3 First Aid Measures**

**Eye Contact**

Rinse immediately with clean water for several minutes and seek medical attention if irritation persists.

**Skin Contact**

Wash thoroughly with soap and clean water.

**Inhalation**

Move affected person to fresh air.

**Ingestion**

Seek medical advice immediately. Do not induce vomiting unless directed by medical personnel.

**21.4 Application Safety**
During application:

- Avoid contamination of food and drinking water
- Prevent unnecessary exposure
- Maintain safe working conditions
- Follow standard site safety procedures

**21.5 General Safety Note**

- Keep out of reach of children
- For professional and industrial use only
- Refer to Safety Data Sheet (SDS) where applicable for additional safety information

Proper safety practices should always be followed during storage, mixing, handling, and application.

## 22 Environmental Considerations

Proper environmental handling and responsible disposal practices should be followed during storage, application, and disposal of Esplendido SilanStop™ After Coat 2K System.

**22.1 Environmental Precautions**
Avoid uncontrolled release into drains, soil, or water bodies
Prevent contamination of natural water systems
Handle material responsibly during application and cleaning operations

**22.2 Spill Management**
In case of accidental spillage:

- Collect material using suitable absorbent or inert material
- Prevent spread into drainage systems

Dispose of collected waste according to local regulations
For powder component:

- Avoid airborne dust generation during cleanup

**22.3 Disposal**
Dispose unused material, empty containers, and waste material in accordance with applicable local environmental and safety regulations.

Do not discharge:

- Liquid waste into drains
- Cementitious residue into water bodies
- Uncontrolled construction chemical waste into the environment

**22.4 Responsible Usage**
Efficient material usage, proper storage, and controlled application help reduce:

- Material wastage
- Environmental contamination risk
- Unnecessary disposal requirements
- Proper environmental management practices are recommended throughout the product lifecycle.

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# ESPLENDIDO™ SILANSTOP

## AFTER COAT 2K SYSTEM

REINFORCED SURFACE PROTECTION & WATERPROOFING BASE SYSTEM

**STEP 2 - SURFACE PROTECTION**

TECHNICAL DATA SHEET (TDS)


EXCELLENT PROTECTION | WATER RESISTANT | CRACK BRIDGING | EASY APPLICATION | WATERPROOF BARRIER | IMPROVES DURABILITY

## 23 Packaging

Esplendido SilanStop™ After Coat 2K System is supplied as a two-component packaging system designed for proper ratio control, convenient handling, and consistent site application.

**23.1 Standard Packaging**
Part A – Powder Component 10 KG
Part B – Liquid Polymer Component 5 KG

**23.2 Mixing Ratio**
Recommended Mixing Ratio:

Part A : Part B = 2 : 1 (By Weight)

The packaging configuration is designed to maintain the recommended mixing proportion for optimum system performance.

**23.3 Packaging Features**

- Supplied in sealed containers for product stability
- Designed for convenient transportation and storage
- Packaging configuration supports controlled mixing and application
- Suitable for terrace waterproofing, rehabilitation, and coating applications

**23.4 Packaging Notes**

- Use complete packaging units where practical for best ratio consistency
- Avoid contamination during handling and storage
- Keep containers tightly closed when not in use
- Proper storage and handling of packaging units help maintain product quality and performance.

## 24 Disclaimer & Warranty

The information provided in this Technical Data Sheet is based on current technical knowledge, laboratory evaluation, field observations, and practical experience under controlled conditions. The information is intended to provide general guidance regarding product properties, application methods, and typical system performance characteristics.

Actual performance may vary depending on several factors beyond the manufacturer's control, including but not limited to:

Substrate condition and preparation
Site practices and workmanship quality
Application method and system design
Environmental and exposure conditions
Compatibility with associated materials and systems
Maintenance and service conditions

Esplendido SilanStop™ After Coat 2K System is designed to function as part of the Esplendido SilanStop™ Dual Protection System and is recommended to be used in conjunction with Esplendido SilanStop™ internal moisture-control treatment and suitable waterproofing or finishing systems, depending on project requirements.

The overall performance of the system depends on:

Proper substrate preparation
Correct application procedures
Recommended system sequencing
Appropriate waterproofing design and site practices

Users are responsible for determining the suitability of the product for the intended application and for ensuring compliance with recommended application guidelines and good construction practices.
Site trials and sample applications are recommended prior to full-scale application to verify compatibility and suitability under actual project conditions.

The manufacturer reserves the right to modify product specifications, packaging, technical information, or application recommendations without prior notice as part of ongoing product development and improvement.
Warranty Statement

Esplendido SilanStop™ After Coat 2K System is supplied with warranty coverage subject to applicable project conditions, approved system application procedures, and manufacturer guidelines.
Warranty applicability may depend upon:

Correct system selection
Proper surface preparation
Approved application practices
Use within recommended system configuration
Site conditions and exposure environment

For detailed warranty terms, limitations, and project-specific applicability, users are advised to contact the manufacturer directly.
Except for product replacement obligations specifically agreed upon in writing, the manufacturer's liability shall be limited solely to supply of the product.

The manufacturer shall not be liable for:

- Indirect or consequential damages
- Improper application or workmanship
- Structural defects or design-related failures
- Site conditions beyond manufacturer control
- Incorrect product selection or misuse
- Failure arising from deviation from recommended application procedures
- Use of the product constitutes acceptance of these conditions and limitations.

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