

ESPLENDIDO CRACKVEIL™

Advanced Elastomeric Waterproof Crack Bridging System

— TECHNICAL DATA SHEET (TDS) —



1 Product Description

ESPLENDIDO CRACKVEIL™ is a premium-grade elastomeric waterproof crack repair compound specially engineered for sealing, stabilizing, and protecting non-structural cracks in cementitious substrates exposed to moisture, thermal movement, and environmental weathering.













Developed using advanced modified elastomeric acrylic polymer technology, reinforced micro-fillers, moisture-resistant binders, and deep adhesion chemistry, the product forms a flexible waterproof sealing network within cracks to help minimize water ingress, dampness formation, paint failure, and progressive crack propagation.

Unlike conventional rigid crack fillers that merely cover surface cracks temporarily, ESPLINDIDO CRACKVEIL™ is designed to maintain long-term flexibility, strong substrate adhesion, low shrinkage performance, and durable waterproof protection under demanding climatic conditions. The product is specially formulated for premium waterproofing systems where flexibility, crack accommodation, weather durability, and moisture resistance are critical performance requirements.

Designed for compatibility with premium elastomeric waterproofing systems and exterior protective coatings.

2 Recommended Applications

ESPLENDIDO CRACKVEIL™ is recommended for:

-  Hairline plaster cracks
-  Surface wall cracks
-  Terrace crack treatment
-  Balcony crack repairs
-  External facade cracks
-  Damp-prone wall repairs
-  Cement plaster imperfections
-  Concrete surface crack filling
-  Waterproof coating preparation
-  Crack sealing before exterior painting
-  Waterproof rehabilitation systems
-  Crack treatment prior to elastomeric coatings

3 Areas of Use





Suitable for application in:

-  Residential buildings
-  Commercial complexes
-  Industrial structures
-  Villas & apartments
-  Exterior facades
-  Terrace waterproofing systems
-  Staircase walls
-  Boundary walls
-  Balconies & parapets
-  Repair & renovation projects

4 Suitable Substrates

- RCC concrete
- Cement plaster
- Brick masonry
- Cement boards
- AAC block surfaces
- Putty-coated surfaces
- Stone-based mineral substrates

5 Technology Platform

-  **Advanced Elastomeric Polymer Matrix**
Engineered for flexible crack accommodation and long-term adhesion stability.
-  **HydroLock Barrier System™**
Helps reduce water penetration and moisture migration through cracks.
-  **DeepLock Adhesion Mechanism**
Enhances substrate bonding and sealing performance on cementitious surfaces.
-  **Anti-ReCrack Shield**
Flexible reinforced structure designed to minimize recurring crack formation caused by thermal movement and substrate stress.

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| | | | | | | | |
|--|--|---|---|---|---|---|---|
|  WATERPROOF CRACK STABILIZATION |  MOISTURE RESISTANT TECHNOLOGY |  LONG LASTING FLEXIBLE PROTECTION |  SUPERIOR WATERPROOF PROTECTION |  ADVANCED CRACK BRIDGING TECHNOLOGY |  DEEP ADHESION STRENGTH |  UV & WEATHER RESISTANT |  NON-SHRINK FORMULA |
|--|--|---|---|---|---|---|---|

6 Key Features & Benefits

-  **Advanced Crack Accommodation**
Flexible elastomeric structure helps accommodate minor substrate movement and thermal expansion.
-  **Waterproof Protection**
Forms a moisture-resistant sealing barrier against seepage and dampness.
-  **Superior Adhesion Performance**
Strong bonding with concrete, plaster, and porous mineral substrates.
-  **Low Shrinkage Technology**
Helps minimize shrinkage-related debonding and crack reopening.
-  **Enhanced Micro-Crack Penetration**
Improved penetration helps enhance crack sealing efficiency.
-  **Smooth Paintable Finish**
Provides excellent compatibility with acrylic paints and waterproof coatings.
-  **UV & Weather Resistant**
Suitable for long-term exterior exposure.
-  **Easy Application**
Ready-to-use single component formulation.
-  **Interior & Exterior Usage**
Suitable for both indoor and outdoor crack repair applications.

7 Common Problems Addressed

ESPLENDIDO CRACKVEIL™ helps minimize:

-  Recurring wall cracks
-  Water seepage through cracks
-  Dampness formation
-  Paint blistering & peeling
-  Moisture ingress
-  Thermal stress cracks
-  Surface crack widening
-  Waterproof coating failures caused by untreated cracks

8 Performance Data Test

| Property | Results | Test Method |
|-----------------------------------|--|-----------------|
| Appearance | Smooth Flexible Elastomeric Paste | Visual |
| Colour | Premium Off White | Visual |
| Base Chemistry | Modified Elastomeric Acrylic Polymer | Internal Method |
| Specific Gravity | 1.55 ± 0.05 | ASTM D1475 |
| Tensile Strength | 1.4 – 1.8 MPa | ASTM D412 |
| Elongation at Break | 120 – 220% | ASTM D412 |
| Adhesion Strength to Concrete | >1.5 MPa | ASTM D4541 |
| Crack Accommodation | Suitable for Minor Crack Movement | Internal Method |
| Shore Hardness (A) | 35 – 45 | ASTM D2240 |
| Water Absorption | <4% | ASTM D570 |
| Water Resistance | Excellent | Internal Method |
| UV Resistance | Excellent | ASTM G154 |
| Accelerated Weathering Resistance | Passes Accelerated Weathering Exposure | ASTM G154 |
| Flexibility | Excellent | Internal Method |
| Shrinkage | Negligible | ASTM C157 |
| VOC Content | Low | ASTM D3960 |
| pH Value | 8 – 9 | ASTM E70 |
| Weather Resistance | Excellent | Internal Method |
| Slump Resistance | Non-Sag | ASTM C639 |
| Recoat Interval | 4 – 6 Hours | Internal Method |
| Final Cure | 24 Hours | Internal Method |
| Service Temperature Range | 5°C to 70°C | Internal Method |
| Humidity Resistance | Excellent | ASTM D2247 |

9 Crack Classification Guide

| Crack Type | Recommended Treatment |
|------------------------------|--|
| { Hairline Cracks (<0.5 mm) | Direct Application |
| { Minor Cracks (0.5–2 mm) | V-Groove + Filling |
| { Wider Cracks (2–5 mm) | Multi-Layer Filling Recommended |
| { Structural / Active Cracks | Specialized Structural Repair System Recommended |







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10 Surface Preparation

-  Proper surface preparation is critical for achieving long-term waterproofing performance.
-  Surface must be clean, sound, and structurally stable.
-  Remove dust, laitance, grease, algae, paint flakes, loose particles, and contaminants.
-  Open cracks in "V" groove profile wherever required to improve penetration and anchoring.
-  Clean cracks thoroughly using wire brush, vacuum, or air blower.
-  Surface should be slightly damp but free from standing water before application.

11 Application Procedure

-  **Step 1: Crack Preparation**
Identify and prepare cracks properly.
-  **Step 2: Surface Cleaning**
Remove loose particles and contaminants thoroughly.
-  **Step 3: Application**
Apply ESPLENDIDO CRACKVEIL™ using:
 - Putty knife
 - Spatula
 - Filling blade
 - Ensure proper penetration and complete filling inside cracks.
-  **Step 4: Multi-Layer Application**
For deeper cracks, apply in multiple layers allowing intermediate drying.
-  **Step 5: Surface Finishing**
Smooth the surface evenly.
-  **Step 6: Coating Application**
Allow sufficient drying before applying waterproof coatings or exterior paints.

12 Recommended Waterproofing System

For optimum waterproofing performance and long-term substrate protection, the following integrated waterproofing system is recommended:

- Surface Cleaning
- Application of ESPLENDIDO SILAN STOP
- Water Absorption Test
- Crack Treatment using ESPLENDIDO CRACKVEIL™
- Application of SILAN STOP After Coat 2K System
- Waterproof Coating Application_Protective Top Coat

This recommended system helps improve substrate stabilization, reduce moisture ingress, enhance crack sealing efficiency, and improve long-term waterproofing durability under demanding environmental conditions.

13 Coverage

| Approximate Coverage | Crack Size |
|----------------------|-------------------------|
| 1 mm × 1 mm | 60–80 running meters/kg |
| 3 mm × 3 mm | 35–50 running meters/kg |
| 5 mm × 5 mm | 20–30 running meters/kg |

Actual consumption depends upon:

- Crack depth
- Surface roughness
- Application thickness
- Substrate porosity

14 Packaging







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15 Storage & Shelf Life

| | |
|--|--|
|  | Store in cool and dry conditions. |
|  | Protect from direct sunlight and freezing. |
|  | Keep container tightly closed after use. |
|  | Shelf Life : 12 months from manufacturing date in unopened original packaging. |





16 Limitations

- Designed for non-structural cracks only.
- Structural or continuously moving cracks should be evaluated separately.
- Active leakage cracks may require injection grouting systems.
- Not recommended for permanently submerged conditions without protective system integration.

17 Health & Safety

| | |
|--|--|
|  | Low VOC formulation. |
|  | Non-flammable. |
|  | Avoid contact with eyes and prolonged skin exposure. |
|  | Use gloves during application. |
|  | Keep away from children. |
|  | Refer Safety Data Sheet (SDS) before industrial usage. |

18 Precautions

| | |
|---|---|
|  | Do not apply during rain or on waterlogged surfaces. |
|  | Protect freshly applied material from heavy rain during initial curing. |
|  | Excessively deep cracks should be repaired in layers. |
|  | Ensure proper drying before overcoating. |

19 Technical Recommendation

Untreated micro-cracks can act as capillary pathways for water ingress, eventually resulting in:

- Seepage recurrence
- Dampness formation
- Coating debonding
- Paint blistering
- Surface deterioration
- Progressive crack widening

ESPLENDIDO CRACKVEIL™ is designed to help minimize these risks through its advanced flexible polymer architecture, deep adhesion mechanism, and moisture-resistant elastomeric sealing network.

20 Disclaimer

The information and recommendations contained herein are based on laboratory testing, field observations, and practical application experience believed to be reliable.

However, since site conditions, substrate quality, workmanship, and application methods are beyond our control, no warranty is expressed or implied regarding final performance. Users are advised to conduct suitability trials prior to full-scale application.