

THERMOFILL® Resin / Stone / Grit

INTERIOR & EXTERIOR

SOLVENT FREE

3K

Description:

This repair system comes as a hot applied kit which includes preformed thermoplastic pellets (**THERMOFILL® Resin**), specially coated stones (**THERMOFILL® Stone**) and anti-skid aggregate (**THERMOFILL® Grit**).

Intended Uses:

The THERMOFILL® Repair System is engineered for fast, durable restoration of asphalt and pre-primed concrete surfaces. Suitable for potholes, cracks and irregular surface defects, it provides a long-lasting, traffic-ready finish with minimal downtime.

For pothole repairs—whether small or large—the complete THERMOFILL® kit can be used to create a flush, even surface capable of handling immediate traffic. Cracks and narrow damages can be repaired using THERMOFILL® Resin alone, while THERMOFILL® Grit may be broadcast over the surface to enhance skid resistance wherever needed.

When heated, the molten resin flows easily and conforms to the profile of the existing substrate, creating a seamless, watertight repair that prevents water ingress and stops minor issues from developing into costly structural failures. Its fast-hardening characteristics allow areas to return to service quickly, and its long-term flexibility ensures performance under traffic loads and in freezing temperatures.

Simple to use THERMOFILL® requires minimal equipment while delivering a robust, professional repair solution for asphalt, primed concrete and paving surfaces.

Features & Benefits:

- Quick & easy installation with minimal equipment
- Fast hardening time ensures minimal traffic downtime
- Seamless
- High Durability
- Effective repair solution
- Stops water ingress
- Repair of Potholes, cracks & irregular damages
- Compatible with asphalt surfaces & primed concrete
- Maintains flexibility during traffic forces
- Flexible in freezing temperatures.
- Excellent skid resistance once broadcast with THERMOFILL® Grit.

Certifications:

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Technical Data:

Product Physical Form	THERMOFILL® Resin: Preformed thermoplastic pellets THERMOFILL® Stone: Specially coated stones THERMOFILL® Grit: Crushed glass
Binder Type	Thermoplastic
Colour	Black
Appearance	Textured
Volume Solids	100%
Bulk Density (Kg/ Lt @ 23°C)	0.8 ± 0.05

TRAFFIC MARKINGS: THERMOPLASTICS | REPAIR SYSTEMS

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Density After Application (Kg/ Lt @ 23°C)	2 ± 0.05
Hardening Time	30 minutes
Method of Application	Applied with preformed thermoplastic torch / screed box
Pack Size	60 Kg Kit THERMOFILL® Resin: 20 Kg THERMOFILL® Stone: 20 Kg THERMOFILL® Grit: 20 Kg
Storage	Store out of direct sunlight in dry conditions between 15°C and 25°C
Shelf Life	12 months when stored as recommended in original un-opened bags

Important Information:

- Always consider a test patch to check suitability & adhesion.
- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the repairing application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of the repairing.

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- Ensure the surface is dry, free from dust and loose debris.
- Oils can be removed using **Hydrosolve Degreaser**.
- Fungal growth or algae can be removed using **Fungicidal Wash**.
- Laitance and loose particles must be removed thoroughly i.e., sweeping with a broom.
- Pre-heating the surface with a preformed thermoplastic torch will aid in drying the surface prior to application.

Substrate	Cleaner	Primer
Concrete & Paving	Laitance and loose particles must be removed thoroughly i.e., grinding /high pressure cleaning.	PLASTIFORM® Epoxy Primer Rapid Cure or PLASTILINE® ThermoPlastic High Tack Penetration Primer .
Aged Asphalt or Asphalt With A Lack Of Bitumen (Such As Chip Seal)	Clear the surface of dust and loose debris by sweeping with a broom.	PLASTILINE® ThermoPlastic High Penetration Primer .

Application:

Once surface is prepared and/or primed as mentioned above, the following application procedures can begin. Application for this product can be done with a preformed thermoplastic torch or a heating kettle and screed box.

Recommended Application Procedure (Pothole Repairs)

Using a Preformed Thermoplastic Heat Torch:

1. Pour a layer of **THERMOFILL® Resin** pellets to cover the entire bottom surface of the pothole, at a maximum build of 15mm then heat with the heat torch until molten. For even heat, move the torch back and forth over the product.
2. Add a filler layer of **THERMOFILL® Stone** on top of the melted **THERMOFILL® Resin**, leaving 10 – 15mm of space for the final layers of **THERMOFILL® Resin** to seal the top of the pothole.
3. Fill the pothole to the brim with a final layer of **THERMOFILL® Resin**, and heat until molten.

4. An addition layer of **THERMOFILL® Resin** can be melted to ensure the pothole is level with the surrounding surface.
5. Finish by scattering **THERMOFILL® Grit** over the molten surface for an anti-skid finish.

Moving the torch back & forth over the surface will allow for even melting of **THERMOFILL® Resin**. Ensure **THERMOFILL® Resin** is molten when layering, as this will ensure adhesion between the layers and the surface.

Recommended Application Procedure (Cracks & Irregular Damages Repairs)

Using a Screed Box & a Preformed Thermoplastic Heat Torch:

1. Pour **THERMOFILL® Resin** pellets in a screed box & heat with the Preformed Thermoplastic Heat torch until molten.
2. Move the screed box across the damaged areas, ensuring the resin fills all cracks & damages.
3. Finish by scattering **THERMOFILL® Grit** over the molten layer for an anti-skid finish.

Recommended Application Procedure (Cracks & Irregular Damages Repairs)

Using a Heating Kettle & Screed box:

1. Pour **THERMOFILL® Resin** pellets into a heating kettle and melt the pellets until temperature reaches 200°C.
2. Pour the liquid resin into a screed box and pull across the damaged areas, ensuring the resin fill all cracks & damages.
3. Finish by scattering **THERMOFILL® Grit** over the molten layer for an anti-skid finish.

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.
- Apply in well-ventilated areas.