



Product Name: ColdFill™

Colour: Asphalt Grey (Traffic Grey B, RAL 7043)

Material Class: Road repair

Version: 2024.1

Type:

Certificate:

Description of product Solvent-free, highly filled 2-component cold plastic grouting compound for repair and compensation work on bitumen surfaces.

Area of application Well suited for the permanent filling of cracks, scale outbreaks and holes on bitumen surfaces.

Technical characteristics:

Binding agent: Pure acrylic polymer resin, dissolved in acrylic monomers

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Dry residue: ≥ 99 %

Density: 1.92 ± 0,04 kg/l

Viscosity: 40 - 60 dpas (according to DIN EN ISO 53019)

Additional information: Free from toxic heavy metals or their compounds. Free from aromatic hydrocarbons. Additional information regarding current legal regulations as well as workers' health and safety are listed in the material safety data sheet. In addition, instructions about transportation, handling, storage, and disposal together with advices regarding first aid, toxicology and environment are given. RAL colour tones can slightly vary according to surface effects or filler material. Therefore we recommend to use paint from one order/ batch within one project to avoid colour variations. This information refers to the curing time needed by the cold plastic to be able to run over by traffic. All cold plastic products cure with time. The final hardness will be achieved after 2 days to 2 weeks. The final hardness is crucial for the durability of cold plastic. The speed at which the final hardness is achieved depends on the temperature. For this reason, it is important not to start any applications below 5°C and if it is to be expected that temperatures remain in the coming weeks below 5°C. The material must not be used for any purpose other than the intended purpose without the consent of the manufacturer. Before using in a different way or applying on special surfaces, please contact the manufacturer.

Application properties:

Application process: Before addition of peroxide, the material must be stirred until it is homogeneous. Then approx. 1.3 wt% powder peroxide initiator is added directly into the bucket and stirred intensively for about 30 seconds. As soon as peroxide initiator is added, the curing process starts. The initiated glue should be poured onto the surface and spread out using a scraper, trowel etc.. Cracks from about 1 cm in width and holes up to about 5 cm depth can be filled. To avoid a slippery surface, the backfilled points should be sprinkled completely with fine sand (item number 200961) before reaching the pot life.

Initiator / Mixing Ratio The material is shipped together with pre-packaged 100 g and 200 g of peroxide bags. Please note: More peroxide than recommended reduces the curing time but simultaneously leads to a softer product. Less peroxide than recommended may lead to curing failures.

Recommended peroxid initiator amounts:

Type 50 powder peroxide: 1.0 - 1.5 wt%

Type 30 powder peroxide: 1.3 - 1.8 wt%

ColdFill drum size	Peroxide initiator type 50 bags	Amount peroxide wt.-%	Peroxide initiator type 30 bags	Amount peroxide wt.-%
8 kg	100 g	1.3	100 g	1.3
16 kg	200 g	1.3	300 g	1.8

Pot life Pot-life at 22°C: 10 minutes – higher temperature reduces the pot-life.

The chemical reaction starts irreversible as soon as peroxide gets in contact with the material. After this period of time the viscosity of the material increases abruptly and marks the maximum time till the application has to be conducted.

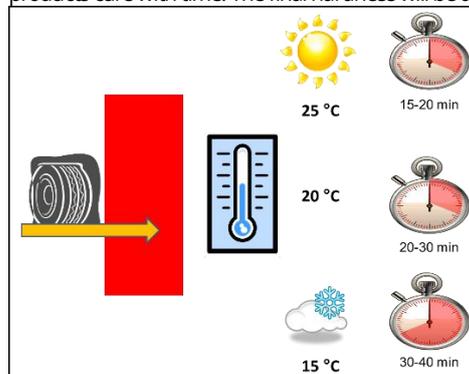


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Air temperature: + 15°C to + 30°C (59°F to 86°F)
Surface temperature: The material is offered in special qualities for very hot as well as very cold temperatures with lower, respectively higher reactivity:
+ 15°C to + 30°C (59°F to 86°F): standard quality
+ 25°C to + 40°C (77°F to 104°F): S (summer) quality
Max. relative humidity: 85 % H(rel)
Pass-over time: Curing time at 22°C: 25 minutes – higher temperature reduces curing time.
The information refers to the curing time needed by the cold plastic to be able to run over by traffic. All cold plastic products cure with time. The final hardness will be achieved



Surface preparation: Before application, the surface should be dry, clean, free of dust and loose particles, salt and grease or oil. Surface must be adhesive. Old markings must be checked before over marking. In general in case of doubtful adhesion we recommend applying a test stripe and try to peel it off after curing.

Asphalt: New bituminous surfaces should be weathered at least 4 weeks before final application. Aged asphalt or any asphalt poor in bitumen must be prepared with PlastiRoute™ THAN Primer/ GEVEKO Primer (0.2 kg/m²). It is not recommended to apply this product on asphalt displaying large stones (bigger than 2 cm). Also check the technical datasheets of the used primer.

Concrete: Fresh concrete surfaces containing a paraffin layer should be mechanically pre-treated by grinding or shot blasting. Any cement residue must be removed before application. All concrete surfaces must be prepared with GEVEKO Primer (0.2 kg/m²). Also check the technical datasheets of the used primer.

Polished surfaces: Application on smooth surfaces (polished stone, granite, basalt, tile, glazed tiles, etc.) or surface-treated concrete may cause reduced adhesion. For these substrates, we recommend applying test markings and check for proper adhesion after 14 days.
The manufacturer will not be liable for failures of adhesion on any polished surface.

Skid resistance Due to the self-leveling flow properties of the material the application results in a slippery, smooth surface. We recommend to use 1,50 kg to 2,0 kg of quartz sand 1,0 - 1,8 mm (item number 200961) -depending on the desired surface structure- on top.

Cleaning: Diluant AC should be used as cleaning agent for tools and application equipment.

Consumption: Minimum consumption on a substrate with a texture depth of up to 1 mm is 1.9 kg/m². Facing a texture depth of 5 mm, minimum consumption is increased to 6.7 kg/m².

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Consumption per m² (density 1.9 kg/l)

Depth of substrate texture	Applied thickness	Consumption
Up to 1 mm	1 mm	1.9 kg
	2 mm	3.8 kg
	3 mm	5.7 kg
5 mm	1 mm	6.7 kg
	2 mm	8.6 kg
	3 mm	10.5 kg

Storage stability:

12 months after delivery when kept in the original packaging under proper storage conditions. Please note that the material can show a tendency towards sedimentation during transportation and storage. In this case, the material can be stirred until it is homogenous, and it will be ready for use again.

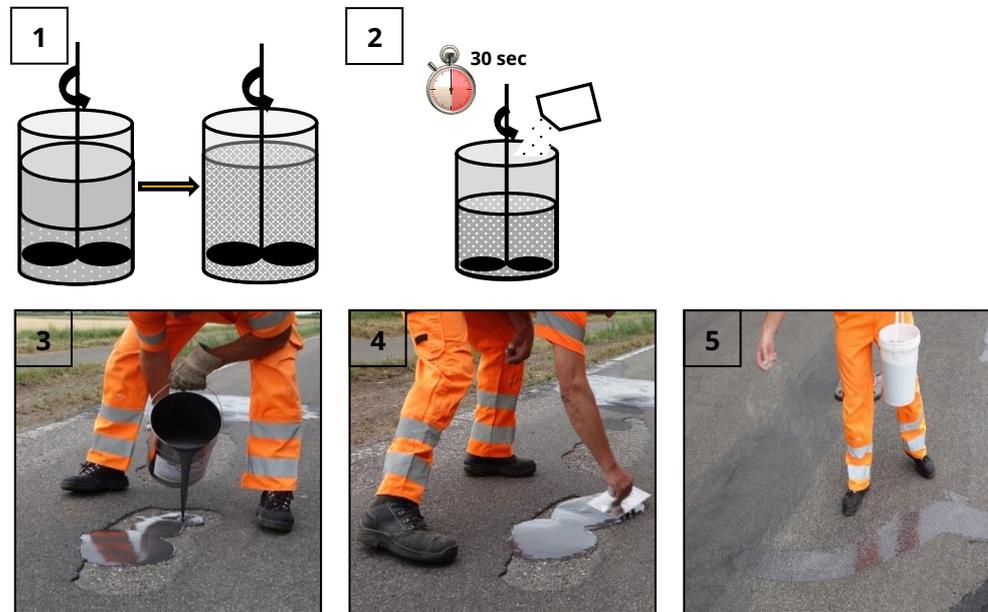
Storage:

Store in tightly closed original containers in a dry, well-ventilated room at temperatures between + 5°C and + 30°C (41°F – 86°F), not directly on the floor and not in the vicinity of heating radiators.

Packaging:

Metal bucket with 8 or 16.0 kg net

Example of application



1. Homogenisation - 2. Peroxide mixing - 3. Filling defects and levelling by trowel/ scrapper - 4. Covering with quartz.