

PRO-ROAD® Cold Mix — Cold Mix Asphalt

Terms and Conditions of Use, Application Instructions and Limited Warranty

End-user document. Read it in full before opening the bag. Applies to PRO-ROAD® Cold Mix supplied by PRO-ROAD® and its authorised distributors.

READ THESE INSTRUCTIONS BEFORE USE. Opening the bag constitutes acceptance of these Terms and Conditions. This product performs very well when applied as described here; almost every problem reported with cold mix asphalt comes from holes that were not cleaned, not primed, that contained water, that were filled in lifts that were too thick or that were not compacted. If in doubt, contact us before applying.

1. What this product is and is not

PRO-ROAD® Cold Mix is a ready-to-use asphalt mix applied cold to fill potholes, wide cracks, utility cuts and pavement edges. It needs no heating and no mixing with anything. It is meant for professional crews and for people with no experience alike: if you can use a shovel and a tamper, you can use this product.

- **It is suitable for:** holes and potholes in roads, parking lots, driveways, sidewalks, bike paths, courts, water, gas or telecommunications trenches, pavement edges and joints around manhole covers or drains.
- **It is not suitable for:** paving large new areas; use as a structural layer; correcting settlement caused by base failure or by water under the pavement; filling holes with water or mud; layers thinner than 4 cm (1.6 in); dusty, oily or loose surfaces that have not been cleaned.
- **Durable repair vs. temporary repair:** with full preparation (clean and dry hole, squared edges, **priming with asphalt emulsion**, lifts of maximum 5 cm and thorough compaction) the patch performs as a durable repair. **Without priming with asphalt emulsion, or without any of those steps, the repair must be considered temporary** and may need maintenance or replacement.

2. Before you start: what you need

Item	What it is for
Gloves, safety glasses and closed footwear	The product may irritate skin and eyes. See the Safety Data Sheet (PRG-MSDS-02).
Stiff broom, shovel and, if possible, a blower	To clean the hole until it is free of dust, leaves and loose material.
Chisel, hammer or saw (optional)	To square the edges of the hole and give it at least 4 cm (1.6 in) of depth.
Asphalt emulsion (tack coat) and brush or roller	The «glue» between the old pavement and the new mix — e.g., SS-1h, CSS-1h or CRS-1 emulsion (ASTM D977 / D2397) or local equivalent, available from asphalt suppliers and specialised hardware stores. Essential for a durable repair.
Hand tamper, plate compactor or roller	For compaction. On small repairs you can drive a vehicle's tyres over the patch several times.
Bags of PRO-ROAD® Cold Mix	Estimate the quantity with the table in section 4 and buy 10 % extra.

3. Step by step



1. CLEAN



2. POUR & LEVEL



3. COMPACT

Step 1 — Clean and prepare the hole

1. Remove all loose material: stones, broken pavement, soil, leaves, litter and mud. Sweep until the bottom and walls are sound and clean.
2. Remove standing water with a broom, cloth or sponge. **Do not apply over water, ice or snow.** The surface may be slightly damp, but never with pooled water.

3. If the hole is shallower than 4 cm (1.6 in) or has crumbling edges, deepen it and square the edges with a chisel or saw until you have sound walls and a minimum depth of 4 cm. A thin «feathered» edge will break away under traffic.
4. If the bottom of the hole is soft, sinks or seeps water, the problem is in the base: the patch will be temporary until the base is repaired.

Step 1B — Prime with asphalt emulsion (essential for durability)

1. Apply a thin, even coat of asphalt emulsion (tack coat) to the bottom and walls of the hole with a brush, roller or sprayer.
2. Wait for the emulsion to «break»: it turns from brown to glossy black and becomes tacky (usually 15 to 60 minutes depending on the weather). Do not pour the mix onto emulsion that is still brown.
3. If you choose not to prime, the repair is considered temporary and the user accepts it as such.

Step 2 — Pour and level

1. Open the bag and pour the mix straight into the hole. If the material feels hard or caked from cold or storage, it is not a defect: turn it over with the shovel or leave it in the sun for a while and it loosens up again.
2. Spread the mix with a shovel or rake in **lifts of maximum 5 cm (2 in)**. If the hole is deeper, compact each lift before placing the next.
3. Leave the last loose lift 1 to 1.5 cm (about 1/2 in) above pavement level: it settles flush when compacted. Cover the edges well.

Step 3 — Compact

1. Compact each lift with a hand tamper, plate compactor or roller. On small holes you can drive a vehicle's tyres over a board or directly over the mix several times.
2. **Compact from the edges towards the centre**, so the mix does not shove or leave voids around the perimeter.
3. Compact until the surface is firm, flush with the pavement and free of marks. A poorly compacted mix deforms, ravel and is pushed out by traffic and rain: **compaction is the most important step**.
4. For a better finish or if heavy traffic is expected, dust a thin layer of clean sand over the finished patch.

After application

- The patch can be opened to traffic immediately. It keeps gaining strength under traffic and as it cures over the first days.
- Avoid turning the steering wheel on the spot, hard braking and point loads (jacks, scaffold legs) on the patch during the first days.
- Keep the bag label (batch and date) and take photos of the hole before, during and after: they are the evidence you will need for any claim.

4. How many bags you need: thickness table

One 22.5 kg (49.6 lb) bag covers approximately **0.21 m² (2.3 sq ft)** at **5 cm (2 in) compacted thickness**, i.e., a hole of about 45 × 45 cm (18 × 18 in). Use this table or the quick rule.

Depth of hole (compacted)	Coverage per bag	Bags per m ²	30 × 30 cm (12 × 12 in) hole	50 × 50 cm (20 × 20 in) hole	1 × 1 m (3.3 × 3.3 ft) hole
4 cm / 1.6 in (minimum)	0.26 m ² / 2.8 sq ft	4	1 bag	2 bags	4 bags
5 cm / 2 in	0.21 m ² / 2.3 sq ft	5	1 bag	2 bags	5 bags
7.5 cm / 3 in	0.14 m ² / 1.5 sq ft	7	1 bag	2 bags	7 bags
10 cm / 4 in	0.10 m ² / 1.1 sq ft	10	1 bag	3 bags	10 bags
12.5 cm / 5 in	0.09 m ² / 1.0 sq ft	11	2 bags	3 bags	11 bags
15 cm / 6 in	0.07 m ² / 0.75 sq ft	14	2 bags	4 bags	14 bags

Quick rule: bags $\approx$ length (m) $\times$ width (m) $\times$ depth (cm). Round up and buy 10 % extra. Example: a hole 0.8 m $\times$ 0.5 m and 6 cm deep $\rightarrow$ 0.8 $\times$ 0.5 $\times$ 6 = 2.4 $\rightarrow$ 3 bags. (In inches: bags $\approx$ length (ft) $\times$ width (ft) $\times$ depth (in) $\times$ 0.24.)

Minimum compacted depth: 4 cm (1.6 in). Deeper than 5 cm (2 in): in lifts of maximum 5 cm, compacting each one. Irregular holes use more mix than the theoretical estimate.

5. Application conditions

- **Weather:** preferably apply without rain. It can be applied on a damp pavement, but never with pooled water. In heavy rain, wait.
- **Temperature:** apply at ambient temperature. In cold weather the mix is stiffer: keep it under cover or in the sun before use and compact with more energy. In very hot weather the mix is softer: compact immediately and avoid heavy traffic in the first hours.
- **Surface:** clean, sound asphalt or concrete pavement, dry or just damp. On smooth concrete, priming with emulsion is mandatory for the mix to bond.
- **Thickness:** minimum 4 cm (1.6 in) compacted; lifts of maximum 5 cm (2 in); deep holes in several compacted lifts.
- **Do not modify the product:** do not heat it and do not add solvents, gasoline, diesel, oil, water or cement. Any modification voids the warranty.
- **Traffic:** immediate opening. Avoid point loads, turning on the spot and hard braking in the first days.

6. Storage and shelf life

- Keep the bags closed, under cover, in a dry place, in the shade and at ambient temperature, away from heat, sparks and the reach of children.
- **Shelf life: 12 months** from the manufacturing date printed on the bag, in the sealed package and under the stated conditions. Do not use expired product on works that require a warranty.
- Opened bag: close it well and use it within the following days.
- **Hard product inside the closed bag:** a normal condition caused by cold or storage time that **does not constitute a defect**. Opening, pouring out and turning over the material restores its looseness.

7. Safety

- Read the Safety Data Sheet (PRG-MSDS-02). Wear gloves, safety glasses and closed footwear. Avoid breathing dust. Do not ingest.
- Keep out of reach of children and pets. The bag weighs 22.5 kg (49.6 lb): lift it correctly or with two people.
- In case of eye contact, rinse with plenty of water for 15 minutes; on skin, wash with soap and water. If discomfort persists, consult a physician.
- Work on the road with signage, a high-visibility vest and cones; never with your back to traffic.

8. Limited warranty

PRO-ROAD® warrants that PRO-ROAD® Cold Mix, in its sealed bag, within its shelf life and stored under the stated conditions, conforms to the description in its Technical Data Sheet (PRG-TDS-02) and is free from manufacturing defects. This warranty is honoured, at PRO-ROAD®'s option and subject to applicable law, by replacement of the defective product or refund of its purchase price. It is the sole warranty given for the product and replaces any other express or implied warranty, including implied warranties of merchantability or fitness for a particular purpose, to the extent permitted by applicable law.

8.1 What is covered

- Product that, on opening the bag, shows a verifiable manufacturing defect: for example, absence of binder (dry, loose aggregate that does not bind when compacted), visible contamination with foreign materials, net weight below the declared weight, or a factory-sealed bag delivered with expired product.
- Quantity covered: only the bags whose defect is verified.

8.2 What is not covered

- Product hardened inside the closed bag (normal condition, section 6).
- Damage to the bag or the product caused during transport, loading, storage or display by third parties (carriers, distributors, stores or the buyer) after delivery by PRO-ROAD®: torn, wet, contaminated or punctured bags.
- Improper storage (outdoors, wet, under prolonged direct sun or near heat), opened bag or expired product.
- Application without following these instructions: hole not cleaned, or containing water, mud or loose material; no priming where a durable repair was expected; lifts thicker than 5 cm or thinner than 4 cm; no or insufficient compaction; edges not squared.
- Use other than the one indicated, including use as a structural layer, over failed bases or in the presence of water, or modification of the product (heating, mixing with solvents, oils, water or other materials).
- Failures caused by the condition of the existing pavement, the base or subgrade, drainage, or traffic or loads beyond what a patch can withstand.
- Claims about coverage (m² per bag), which depends on the hole and the compaction and is an approximate value.
- Product already applied, mixed with other materials, or without a legible label and batch number.
- Force majeure and acts of third parties.

8.3 How to claim

1. Write to **info@proroadglobal.com** or contact your authorised distributor within five (5) working days of detecting the defect and always within the product's shelf life.
2. Attach: a photo of the whole bag and of the label with legible batch and date; a photo or video of the defect; the invoice or proof of purchase; and, if the product was applied, photos of the hole before, during and after, with a description of the procedure (cleaning, priming, thickness, compaction).
3. Keep the claimed product available to PRO-ROAD® for verification. Samples or an on-site verification visit may be requested.
4. PRO-ROAD® will respond within fifteen (15) working days of receiving the complete evidence. Without a photo of the batch and proof of purchase the claim cannot be processed.

Nothing in this document limits mandatory consumer rights under the applicable law of the country of purchase.

9. Liability and professional use

- To the maximum extent permitted by applicable law, PRO-ROAD®'s liability is limited to the value of the product supplied, and PRO-ROAD® shall not be liable for indirect, incidental or consequential damages, including loss of use, labour costs or the cost of removing or re-applying the product. The user is responsible for selecting the product for their case, for surface preparation, for the application and for safety at the work site, including signage and traffic management.
- On contracted works, the contractor must verify with the engineer that the product meets the project specifications (see Technical Data Sheet, section 3) before using it. The Technical Data Sheet declares the product's values; it does not replace the design or the engineer's approval.
- The recommendations in this document are general and do not replace the judgement of a professional for larger or more complex repairs.

10. Contact

Item	Detail
Supplier	PRO-ROAD® · www.proroadglobal.com
Warranty and claims	info@proroadglobal.com
Technical information	info@proroadglobal.com · www.proroadglobal.com
Product documents	Technical Data Sheet PRG-TDS-02 · Safety Data Sheet PRG-MSDS-02 · available at www.proroadglobal.com/ft

This document forms part of the product information and prevails over any verbal indication. PRO-ROAD® may update it without notice; the current version is the one published at www.proroadglobal.com. The information in this document is provided in good faith, based on PRO-ROAD®'s technical knowledge of its products and on the standards cited. It does not constitute a sales specification or a guarantee of results. The user is responsible for verifying the suitability of the product for the intended use, for its correct handling and for its application in accordance with PRO-ROAD®'s instructions and the project specifications. Values guaranteed per batch are certified in the corresponding quality certificate.

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