INSTAPHALT

Water-Activated Cold-Applied Asphalt & Pavement Repair Material



TECHNICAL DATA SHEET

PRODUCT

Instaphalt

PRODUCT TYPE

Water-Activated Cold-Applied Repair Material

PACKAGING

50 lb (22.7 kg) bag

1 PRODUCT DESCRIPTION

Instaphalt is a high-performance, water-activated, cold-applied pavement repair material designed for rapid repair of potholes, spalls and localized pavement failures in asphalt and selected concrete surfaces.

It combines high-grade black granite aggregate with a proprietary water-activated binder system to provide a stable, workable repair material that can be installed without heating, mixing or specialized equipment.

The material is supplied pre-mixed and ready to use for efficient year-round pavement maintenance.

2 BASIC USES

Instaphalt is intended for localized pavement maintenance where speed, minimal equipment and rapid return to service are important.

- Potholes & spalls
- Roads & highways
- Parking lots & garages
- Utility cuts
- Around manholes & drains
- Bridge decks
- Bike paths & walkways
- Industrial & commercial pavements
- Emergency repairs
- Gas Stations
- Truck Stops
- Strip Malls
- Drive Ways

3 FEATURES & BENEFITS

WATER-ACTIVATED
Designed for wet or dry conditions

DURABLE PERFORMANCE
Engineered for lasting pavement stability and water resistance.

YEAR-ROUND USE
Designed for reliable performance across a wide temperature range

RAPID TRAFFIC RETURN
Activates instantly for immediate traffic flow after compaction.

4 AGGREGATE SYSTEM

HIGH-GRADE BLACK GRANITE AGGREGATE

Selected for hardness, durability and suitability for pavement repair applications.

Aggregate Type	Black Granite
Specific Gravity	2.65
Density	165.4 lb/ft³ (2,650 kg/m³)
Maximum Particle Size	0.256 in. (approx. 1/4 in.)

AGGREGATE GRADATION

Sieve	% Passing	Sieve	% Passing
5/16"	100%	**#45**	34%
#3 ½	99%	**#80**	19%
#7	68%	**#170**	7%
#14	52%	**#325**	1%
#25	42%		

5 BINDER SYSTEM

Proprietary water-activated binder system designed to support adhesion, stability and long-term pavement performance.

Binder Content	10% of the weight of the finished product
VOC Content	0%
Viscosity / Workability	Malleable at >59 °F (material temperature)
Cure Mechanism	Water-activated

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6 PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Appearance	Black granular repair material	Visual
Density	96 lb/ft³ (Compacted; 0.52 ft³ per 50 lb bag)	ASTM D2726 / AASHTO T166
Binder Content	10% by weight	ASTM D2172 / AASHTO T164
Maximum Aggregate Size	0.256 in. (approx. 1/4 in.)	ASTM C136 / AASHTO T27
Moisture Content	< 0.2% (Factory dry aggregate baseline)	ASTM D1461 / AASHTO T110
VOC Content	0% (Zero VOC)	EPA Method 24
Compressive Strength	435 – 725 psi (Highly flexible polymer matrix)	ASTM D1074
Indirect Tensile Strength	51 – 80 psi (Excellent water-activated adhesion)	ASTM D6931
Water Resistance	Excellent (No stripping / patches directly in water)	ASTM D3625 / AASHTO T182
Rut Resistance	Non-rutting / Immediate heavy truck traffic ready	AASHTO T324 (Hamburg Wheel Tracking)

7 INSTALLATION

01	**PREPARE**	Remove loose debris and contaminants. Clean repair edges. Area may be wet or dry. Ambient temperature -4°F to 90°F; store product at 60°F before repair.
02	**PLACE**	Pour or shovel Instaphalt directly into the repair area.
03	**LEVEL & WATER**	Spread evenly using a rake or shovel and add water to activate the product
04	**COMPACT**	A simple hand tamper or plate compactor provides sufficient compaction.
05	**OVERFILL**	Install approx. ½ – 1 in. higher than the surrounding pavement for final compaction traffic.
06	**TRAFFIC**	Open immediately to car and heavy truck traffic once compaction is completed.

8 WEATHER & APPLICATION CONDITIONS

Dry	✓
Wet	✓
Standing Water	✓
Rain	✓
Cold Weather	Upto -4°F
Hot Weather	Upto 90°F
Snow	✓

9 COVERAGE • PACKAGING • STORAGE

50 LB BAG — COVERAGE

1" depth: 6.2 sq ft
2" depth: 3.1 sq ft
3" depth: 2.1 sq ft
4" depth: 1.6 sq ft
Yield: 0.52 ft³ per bag

SHELF LIFE: 12 MONTHS (in its original, unopened packaging)

OPTIMAL STORAGE: Above 60°F (Keep in a dry area, protected from direct sunlight; indoor storage is recommended during extreme sub-zero winter temperatures to maintain immediate hand-shoveling workability).

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