MACPATCH HPB

SPECIALTY HIGH PERFORMANCE COLD MIX BINDER

PRODUCT DESCRIPTION

MACPATCH HPB is a high performance asphalt cutback specifically designed and formulated for use in the production of MACPATCH, a proprietary high performance cold patching material.

MACPATCH HPB, high performance binder is manufactured according to rigid ISO 9001:2015 quality control standards.

RECOMMENDED USE

MACPATCH HPB has been specially formulated to enhance the workability of cold mix during handling and to improve the adhesion properties of the binder during its service life.

MACPATCH HPB is used as binder in the production of Specialty Cold mixes and provide users with greater flexibility compared to the hot mix alternatives, which must be kept hot and bring additional costs when work is delayed.

GENERAL PRODUCT FEATURES

Available in several commercial and seasonal grades is “tailor made” to meet your specific cold mix needs.

- Unique binder formulation provides resistance to stripping and bleeding
- Excellent aggregate coating abilities and reduced moisture susceptibility
- Mixed in conventional hot mix plants or pug mills
- Provides excellent low temperature flexibility and cohesive properties
- Remains pliable in stockpiles

SPECIFICATIONS AND TYPICAL RESULTS

TEST	TYPICAL DATA	SPEC RANGE	
		Min	Max
Tests on Cutback			
Flash Point (COC), °C	**90+**	80	…
Kinematic Visc, 60°C, cSt	**525**	400	800
Water Content, %	**trace**	…	0.2
Distillation Test			
To 225°C	**0**	…	…
To 260°C	**2.5**	0	5
To 315°C	**12.5**	0	25
Dist Residue to 360°C	**82**	72	95
Tests on Residue			
Penetration, 25°C, dmm	**200+**	85	…
Ductility, 25°C, cm	**100+**	100	…
Solubility in TCE, %	**99.82**	99.0	…

APPLICATION GUIDELINES

MACPATCH HPB specification will vary and is dependant upon climatic zone, aggregate type and gradation, as well as seasonal requirements.

DESIGN CRITERIA

Mix designs should be formulated prior to initial production, and each time aggregate sources are changed. Testing of final product is highly recommended to ensure a quality mix. ***MCA*** **Technical Services** offers complete mix design service and product quality analysis.

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ISO 9001/14001/45001

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APPLICATION GUIDELINES (CONT.)

TYPICAL AGGREGATE SPECIFICATIONS

The aggregate should be 100% crushed limestone or an equivalent meeting ASTM C-136. Recommended gradation and physical properties are as follows .

SIEVE SIZE	% PASSING (BY WEIGHT)
9.5 mm (3/8”)	90 – 100
4.75 mm (#4)	20 – 80
2.36 mm (#8)	5 - 30
1.18 mm (#16)	0 - 10
75 µm (#200)	0 - 2

AGGREGATE PROPERTY	REQUIREMENT
Soundness Loss (ASTM C88)	12 % max
LA Abrasion (ASTM C131)	40 % max
Absorption (ASTM C127)	2 % max
Specific Gravity (ASTM C127)	2.55 – 2.75
Soft Aggregates (ASTM C123)	3 % max
-200 Sieve By Wash (ASTM C117)	2 % max

PACKAGING, STORAGE AND HANDLING

STORAGE

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Keep container tighly closed and sealed until ready for use. Containers that have been open must be carefully resealed and kept upright to prevent leakage. For more detailed information please contact your ***MCA*** **Marketing** representative for an MSDS Sheet.

SHIPPING

- Can TDG, 3256, Class 3, Packing Group II

CERTIFICATION OF QUALITY

McAsphalt Industries Limited is accredited to the quality standard **ISO 9001** and to the environmental standard **ISO 14001**.

Each lot of **MACPATCH HPB** is produced using the strictest quality, safety and environmental guidelines. Each production lot is tested to ensure it meets or exceeds all performance requirements, and it is delivered with a Certificate of Analysis.

PRODUCT SUPPORT

With the ***MCA*** **Advantage**, you get a partner and advisor who will consult with you about designs, specifications, technical services, processes and material selection. By developing innovative, custom-designed products that offer additional benefits, such as peak performance in unique conditions, improved field performance, greater environmental and health benefits, the ***MCA*** **Advantage** provides significant long-term cost savings, resulting in lower “total cost of ownership.”

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