

Product Catalogue

Construction, Road Paving, Sealants
and Water Proofing Solutions



MINETECH ASPHALT MAN INTERNATIONAL SDN. BHD.

Our profile

MAMI started its production of Blown Bitumen, Bitumen Based Coating Enamel & Primers in March 2008. With our new modern plant & state of the art manufacturing technology from Korea coupled with Minetech Resources Bhd's vast experience & knowledge in the market, it is envisaged that the company will be able to provide a comprehensive and complete range of products to support the pipe coating sector both in the water, oil & gas industry.

As an ISO9001:2015 Certified Company, we are supported by a team of committed key management and skilled technical personnel. The company possesses the capacity and technical know-how to support the industry, both locally in Malaysia and overseas. As a result of this acquired expertise, the company is in a position to offer its customers a service level & products quality that is second to none.

The product manufactured by the company includes.

- Blown Asphalt (Blown Grade Bitumen)
- Bitumen Based Coating Enamel
- Synthetic Primer
- Bituminous Primer
- Emulsion Bitumen
- Cold Mix Bitumen: Patch n Go

Our company's mission is to be a market leader in this industry through its dedicated workforce, strong emphasis on quality control as well as providing prompt and efficient after sales service to our customers. Our goal is to be able to establish a long term business relationship with our valued customers and to be beneficial to both parties.



Certificate MY09/02308

The management system of

Minetech Asphalt Man International Sdn. Bhd.

Lot 1414, Batu 29, Jalan KL-Kuala Kubu
Mukim Hulu Yam, 44000 Hulu Selangor, Selangor Darul Ehsan
MALAYSIA

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

Production and Sales of Bituminous Products which Include: Blown Grade Bitumen, Bitumen based Coating Enamel, Bituminous Primer and Synthetic Primer

This certificate is valid from 27 April 2018 until 26 April 2021 and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 28 February 2021
Issue 5. Certified since 27 April 2009



Authorised by

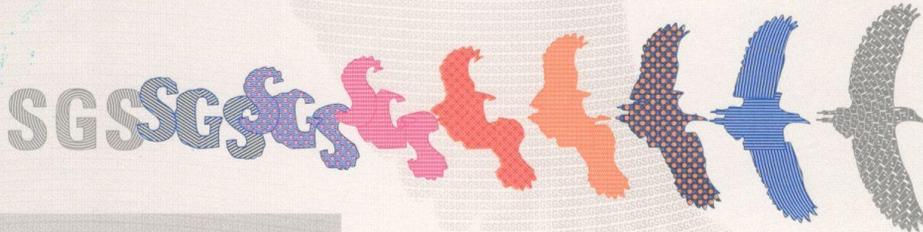
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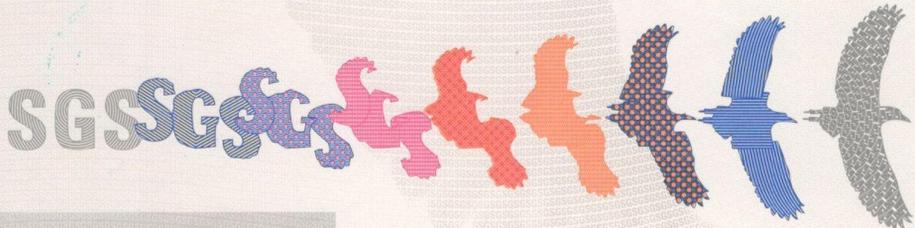
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Blown Asphalt

Description

Blown Asphalt is semi solid grade of pure petroleum bitumen manufactured by air-blowing through an asphalt flux. It comes in various grades such as grade 85/25, 115/15, and 10/20. Blown Asphalt (Blown Grade Bitumen) comply to BS 3690:1989 Part 2.

Usage /Purpose

- Water proofing and flooring: Roof felts and shingle for roof and floors.
- Sound-dampening: Sound damping sheet in the Automotives, Acoustic panels.
- Corrosion protection: Undercarriage sealant and Coats in the Automotives.
- Joint sealing and filling: Industrial application (Concrete, Asphalt road).
- Electrical cable protection.
- Oil and Gas pipe coating: Pipe coating enamel.
- Carpet backing

Advantage

- Good adhesion to concrete and asphalt surface
- Flexible and chemically stable
- Anti corrosive, Good water resistance
- Economical

Standards

- BS 3690 Part 2 - Bitumens for building and civil engineering. Specification for bitumens for industrial purposes.

Product data

- Pack size: 25kg / 40kg in paper bag
- Colour: Black
- Product Code: MK/BA

Technical information

Characteristic	BA10/20	BA80/90	BA85/25	BA115/15	Method
Softening point (°C)	Min. 90	80 - 90	80 - 90	110 - 120	BS 2000
Penetration at 25°C (0.1mm)	10 - 20	6 - 12	20 - 30	10 - 20	BS 2000
Flash point: cleveland open cup (°C)	210	280 - 340	210	210	BS 4689
Loss on heating (Max % by mass)	0.5	0.05	0.2	0.2	BS 2000
Solubility in Trichloroethane (% wt)	99.1	99.5	99.1	99.1	BS 2000

Application instruction

- Apply only in dry weather at temperatures of at least +5 °C.
- Surface preparation, all surfaces must be thoroughly clean, dry, and free from grease, oils, waxes and all loose materials.
- Cut the compound into small pieces, melt a few pieces then gradually add more pieces to molten material, stirring continuously.
- Heat until the compound reaches its correct pouring temperature, 180°C to 230°C and should not be heated to a temperature exceeding 260°C.

Blown Asphalt

180 ~ 230°C

Coverage

The density of Blow Asphalt is approximately 1.05g/cm³
Guide of Blown Asphalt quantities

Joint size in mm	kg per meter	Joint size in mm	kg per meter
20 x 20	0.42	30 x 50	1.58
30	0.63	35 x 25	0.92
25 x 20	0.53	50	1.84
30	0.79	40 x 25	1.05
40	1.05	30	1.26

Clean up

Clean up equipment immediately after use with mineral spirits.

Storage and shelf life

Product has a 2year shelf life when stored in cool dry conditions in unopened original containers.

Health and safety

- There are no health hazards associated with Blown Asphalt in normal use, however, avoid breathing fumes and do not overheat.
- Remove Blown Asphalt from hands with mineral spirit or similar industrial hand cleanser.
- Wear suitable protective clothing, gloves and goggles.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.
- For additional information see relevant Material Safety Data Sheet.

Blown Asphalt

Waterproofing: Bitumen Membrane Sheets

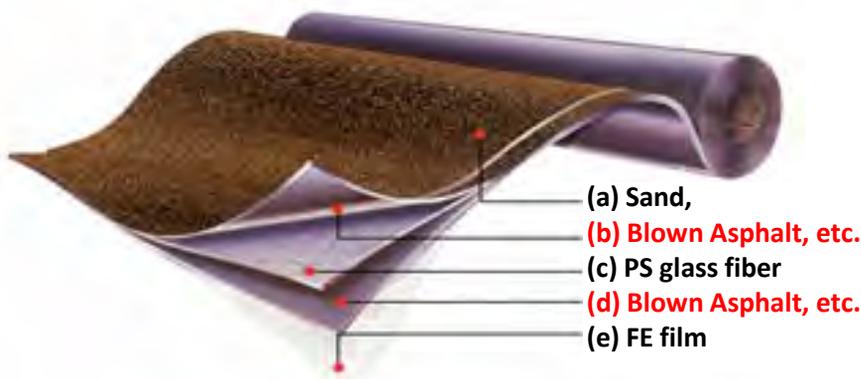
Membrane sheet is a type of membrane system for buildings, automobile and tanks. It is used on flat or nearly flat roofs to prevent leaks, reduce noise and move water off. Membrane sheets are most commonly made from blown asphalt, modified bitumen, synthetic rubber or thermoplastic.

Uses

- Concrete roof , floor slabs and concrete retaining structures
- Basement tankings, car park desk slabs, tunnels and subways

Application method

- 1) Surface preparation, all surfaces must be thoroughly clean, dry, and free from oils, dust, dirt.
- 2) Porous substrate should be coated with **Blown asphalt or bitumen sealant** at an application rate of $0.2 \sim 0.8 \text{ liter/m}^2$.
- 3) Blown asphalt or bitumen sealant should be allowed to dry for minimum 30min.
- 4) Unrolled and placed the membrane sheet at desired position. It is recommended to overlap each of membrane sheet for at least 10cm.
- 5) Then melt the membrane sheet with lightly heated by using gas torch as an adhesion to the surface



Raw material & spec.

- (a) sand, chips, PE film or foil
 - (b,d) BA, modified bitumen, etc.
 - (c) polyester and glass fiber
 - (e) FE film
- * Thickness: 0.75~5 mm

- **Bitumen shingle and bitumen membrane sheet: waterproof of roof top.**



Blown Asphalt

Waterproofing: Surface treatment and joint sealing

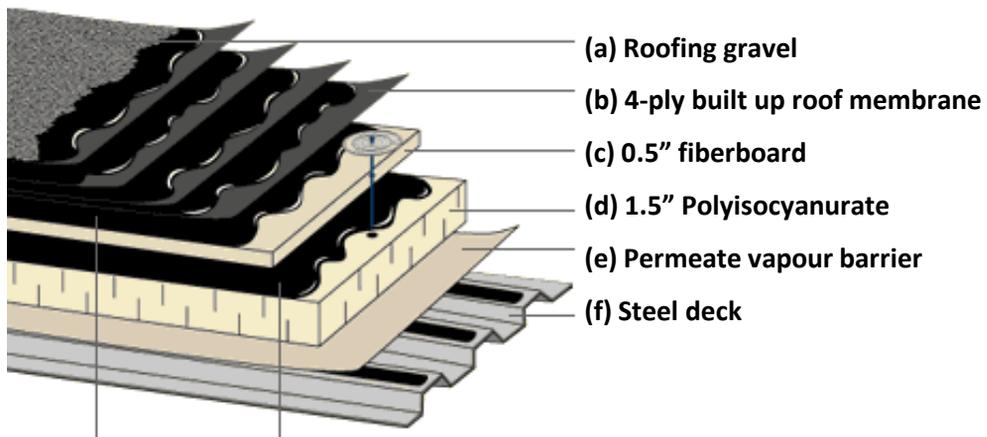
Blown asphalt is used for sealing horizontal movement and construction joints in concrete pavements and floor slabs.

Uses

- Pavements, roads and traffic surfaces
- Waterproofing, water retaining structures, including reservoir floors and roofs, swimming pool substructures and irrigation canal floors.

Application method

- 1) Surface preparation, all surfaces must be thoroughly clean, dry, and free from oils, dust, dirt.
- 2) Cut the compound into small pieces, melt a few pieces then gradually add more pieces to the molten material, stirring continuously. Heat until the compound reaches its correct pouring temperature.
- 3) Do not overheat. Use as soon as possible after heating, preferably within two hours.
- 4) Due to shrinkage behavior occurred during cooling process, it is recommended to:
 - i) Pour the joint seal approximately 3 ~ 6mm of thickness in excess.



Hot blown asphalt or hot bitumen sealant

- **Bitumen tape and joint sealant:** Taping and sealing for road joint and concrete joint.



Blown Asphalt

Usage: Others

- **Bitumen tape and joint sealant:** Taping and sealing for road joint and concrete joint.



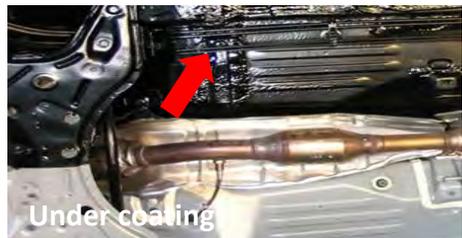
- **Bitumen shingle and bitumen membrane sheet:** waterproof of roof top.



- **Sound dampening sheet:** To absorb sound for vehicle.



- **Anti-corrosion coating:** To protect corrosion for vehicle and container.



- **Tire:** manufacturing / retreated process for the purpose of reducing or replacing the raw materials.



Bitumen Based Coating Enamel

Description

Oxidized bitumen and inert non-fibrous fillers are uniformly mixed to produce this product for the coating of oil, gas and water pipes. It is a very versatile material that adheres well to metal surfaces. It is impact-resistant, does not impart any odour to water pipes. It is a very versatile material that adheres well to metal surfaces.

Usage /Purpose

- Coating, Sealants for the Oil & Gas Industry
- Oil and gas pipeline joints
- Electrical cable protection

Advantage

- Excellent & permanent adhesion to metal
- Resistance to cold stress
- Low water absorption
- High electrical resistibility
- Impact resistance & Flexibility
- Chemically stable

Standards

- BS EN 10300:2005 - Steel tubes and fittings for onshore and offshore pipelines. Bitumen hot applied materials for external coating.
- BS 4147: 1980 - Specification for bitumen-based hot-applied coating materials for protecting iron and steel, including suitable primers where required.

Technical information

Characteristic	Grade A	Grade B	Grade C	Methods	
Filler content by ignition, % by mass	25 - 35	25 - 35	45 - 55	BS 4147	
Density at 25°C, g/cm ³	1.2 - 1.4	1.2 - 1.4	1.4 - 1.65	BS 4147	
Softening point, °C	100 - 120	110 - 130	120 - 150	BS 2000	
Penetration at 25°C, dmm	10 - 20	5 - 17	5 - 15	BS 4147	
Flash point (COC), Min., °C	250	260	260	BS 4689	
Sag, Max, mm	60°C, 24h 75°C, 24h	1.5 -	- 1.5	1.5 -	BS 4147
Bend at 0°C, Min., mm	20	15	10	BS 4147	
Impact Disbonded area, Max, mm	0°C 25°C	15000 -	- 6500	- 6500	BS 4147
Peel, initial & delayed, Max, mm	30°C 40°C 50°C 60°C	3.0 3.0 3.0 3.0	3.0 3.0 3.0 3.0	- 3.0 3.0 3.0	BS 4147

Bitumen Based Coating Enamel

Product data

- Pack size: 25kg / 40kg in silicone lined paper bag, 160kg cylinder form
- Product code: MK/CE
- Colour: Black

Application instruction

- Apply only in dry weather at temperatures of at least +5 °C.
- Surface preparation, all surfaces must be thoroughly clean, dry, and free from grease, oils, waxes and all loose materials.
- Immediately after wire brushing the surface shall be wiped clean and dried, then apply a coat of Bituminous Primer and allowed to dry.
- Cut the compound into small pieces, melt a few pieces then gradually add more pieces to molten material, stirring continuously.
- Heat until the compound reaches its correct pouring temperature, 180°C to 250°C and should not be heated to a temperature exceeding 260°C.

Bitumen Based Coating Enamel

180 ~ 250°C

Coverage

The density of Coating Enamel is approximately 1.30g/cm³.

Clean up

Clean up equipment immediately after use with mineral spirits.

Storage and shelf life

Product has a 2year shelf life when stored in cool dry conditions.

Health and safety

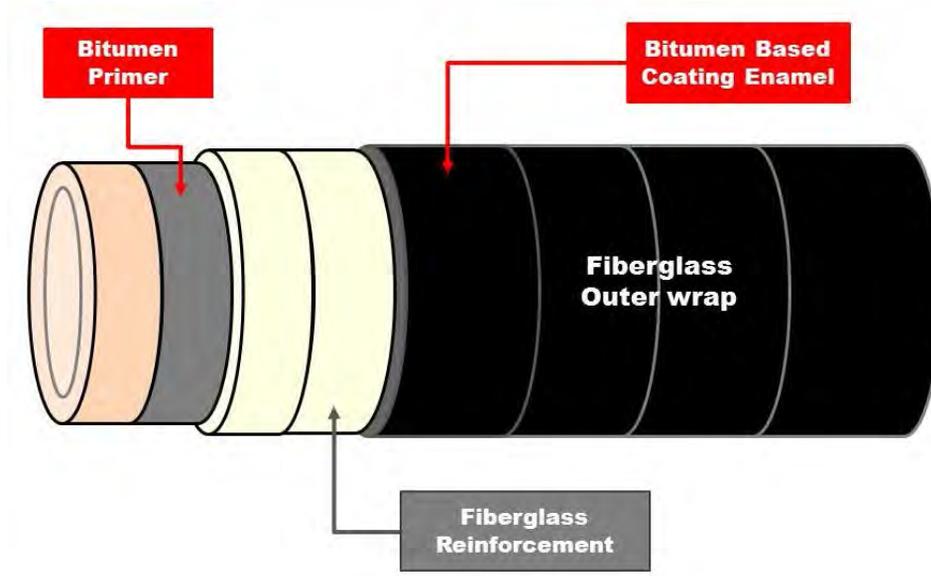
- There are no health hazards associated with Bitumen Based Coating Enamel in normal use, however, avoid breathing fumes and do not overheat.
- Remove Bitumen Based Coating Enamel from hands with mineral spirit or similar industrial hand cleanser.
- Wear suitable protective clothing, gloves and goggles.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.
- For additional information see relevant Material Safety Data Sheet.

Bitumen Based Coating Enamel

Usage

Pipe coating method

- 1) Surface preparation is applied by shot/grit blast cleaning method.
- 2) Priming is to ensure good adhesion to the pipe surface.
- 3) Hot applied spiral wrapping of bitumen or coal tar bonded fiberglass tape.
- 4) Painting with lime wash containing additives for protection against sunlight.
- 5) Pipe end cleaning (cutback).



- **Waterproof lining for reservoirs and canals:** Water, Oil and Gas pipe coating enamels



Bituminous Primer

Description

A solvent based low viscosity bituminous primer. It is highly penetrative and has good adhesion to most surfaces (concrete, brickwork, zinc, metal and existing bitumen roofing).

Usage /Purpose

- Protection of galvanized iron gutters, downpipes, metal railing and metals exposed to weather.
- A primer and sealer coat for masonry and concrete to improve the bonding of bituminous materials (Bitumen membrane sheet and coatings).
- Good water and alkali resistance: roofing, damp proofing and water proofing.
- Tunnels and subways.

Advantage

- Cold applied, does not require heating and fast application.
- Improves the bond of bituminous materials and concrete substrate.
- Anti corrosive, Good water resistance.
- Economical.

Standards

- ASTM D 41 - Asphalt primer for roofing, damp proofing and waterproofing.
- BS 3416, Type A Class C - Bitumen based coating for cold application, suitable for use in contact with potable water.

Product data

- Pack size: 205L Drum
- Colour: Black
- Product Code: MK/BP

Technical information

Characteristic of bituminous primer	Range	Test method
Flow time (4mm flow cup) at 23°C, sec	Min. 50	BS 3900
Flash point (Abel Closed Cup), min. °C	Min. 23	BS 2000

Characteristic of bitumen in bitumeinous primer	Range	Test method
Softening point (Ring and Ball), °C	100 ~ 120	BS 2000
Penetration at 25°C, 100, 5 sec, 0.1 mm	10 ~ 20	BS 2000
Solubility Tricholoroethene, % by mass	Min. 99	BS 2000
Dry Time (Tack free time), min	= 25	-

Bituminous Primer

Application instruction

- Apply only in dry weather at temperatures of at least +5 °C.
- Surface preparation, all surfaces must be thoroughly clean, dry, and free from grease, oils, waxes and all loose materials.
- Apply the bituminous primer 3 ~ 6m²/L.
- Allow the bitumen primer to dry before proceeding with the application of other products. Drying times may be extended in low temperatures (Standard at room temperature).

Application temperature	+ 5°C
Dry time, tack free (at room temp)	= 30 mins
Dry time at outdoor	= 25 ~ 35 mins
Over coating time	After 1 hour at 25°C

Coverage

The coverage is 3 ~ 6 m²/ L coat. However, the coverage will depend on the porosity of the substrate. In order to ascertain the exact converge, a trial application is carried out at site.

Coverage of Bituminous Paint	3 ~ 6m ² /L
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Clean up

Tool and equipment must be cleaned with cleaner immediately after use.

Storage and shelf life

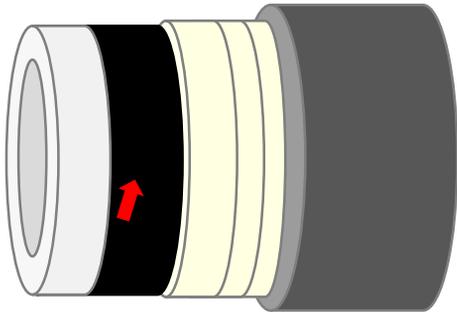
- Products should be kept sealed in a cool, dry, well ventilated environment and all precautions taken against fire.
- In originally sealed packages it can be stored for a minimum of 1year. Excessive exposure to sunlight and UV will result in the deterioration of the product quality.

Health and safety

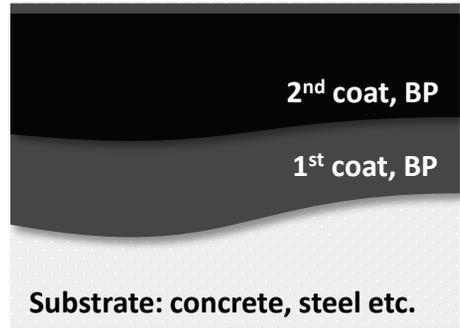
- Product contains volatile hydrocarbon solvent. Avoid inhalation of vapors and ensure there is adequate ventilation in the work place. If swallowed seek medical attention immediately.
- Gloves, protective masks and goggles should be worn during application.
- Flammable. Keep away from ignition sources.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.
- For additional information see relevant Material Safety Data Sheet.

Bituminous Primer

Usage



Steel pipe coating



Surface coating

- **Waterproofing primer:** Protection of metals exposed to weather.



Coated pipe



Pipe coating

- **Anti-corrosion coatings:** Protection corrosion for vehicle and steel structure.



Under coating



Anti-corrosion coating

- **A primer and sealer coat:** Improve the bonding of bituminous materials



Wall coat



Prime coating

Synthetic Primer

Description

The synthetic primer is based on chlorinated rubber. It is a fast-drying internal and external synthetic primer for coal tar and bituminous-based coating enamels. This product has increased bond factor compared to conventional coal tar or bituminous primers. It can be used for internal coating of pipes since it impacts no taste or odour and remains active for months after application.

Usage/Purpose

- Protection of galvanized iron gutters, downpipes, metal railing and metals exposed to weather.
- Good water and alkali resistance: roofing, damp proofing and water proofing.

Advantage

- Cold applied, does not require heating and fast application.
- Greatly increased bond factor compared to conventional coal tar and bituminous primer.
- Anti corrosive, Good water resistance.

Standards

- BS EN 10300:2005, Type 1 - Steel tubes and fittings for onshore and offshore pipelines. Bitumen hot applied materials for external coating.
- BS 3416, Type 2 Class C - Bitumen based coating for cold application, suitable for use in contact with potable water.

Product data

- Pack size: 205L Drum
- Colour: Black
- Product Code: MK/SP

Technical information

Characteristic	Range	Test method
Flow time test (4mm flow cup) at 23°C, sec	35 ~ 60	BS EN ISO 2431
Flash point (Abel Closed Cup), min. °C.	Min. 23	BS EN ISO 13736
Volatile matter, % loss by mass, max	Max 75	BS EN 10300 Annex H
Drying Time at 15°C (minutes)	5 ~ 25	BS 4164

Synthetic Primer

Application instruction

- Apply only in dry weather at temperatures of at least +5 °C.
- Surface preparation, all surfaces must be thoroughly clean, dry, and free from grease, oils, waxes and all loose materials.
- Apply the Synthetic Primer 8 ~ 16m²/L. depending on absorbency of the substrate, applicator device and mixing ratio.
- Allow the Synthetic primer to dry before proceeding with the application of other products. Drying times may be extended in low temperatures. (Standard at room temperature)

Application temperature	+ 5°C
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Coverage

The coverage is 8 ~ 16 m²/ L coat. However, the coverage will depend on the porosity of the substrate. In order to ascertain the exact converge, a trial application is carried out at site.

Coverage of Synthetic Primer	8 ~ 16m ² /L
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Clean up

Tool and equipment must be cleaned with cleaner immediately after use.

Storage and shelf life

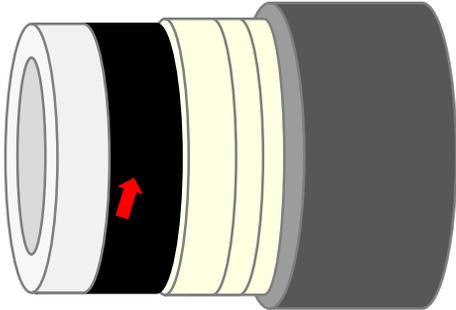
- Products should be kept sealed in a cool, dry, well ventilated environment and all precautions taken against fire.
- In originally sealed packages it can be stored for a minimum of 1year. Excessive exposure to sunlight and UV will result in the deterioration of the product quality.

Health and safety

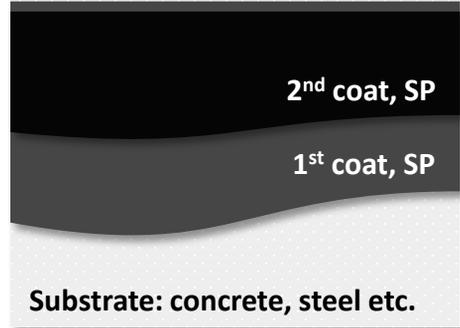
- Product contains volatile hydrocarbon solvent. Avoid inhalation of vapors and ensure there is adequate ventilation in the work place. If swallowed seek medical attention immediately.
- Gloves, protective masks and goggles should be worn during application.
- Flammable. Keep away from ignition sources.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.
- For additional information see relevant Material Safety Data Sheet.

Synthetic Primer

Usage



Steel pipe coating



Surface coating

- **Waterproofing primer:** Protection of metals exposed to weather.



Coated Pipe

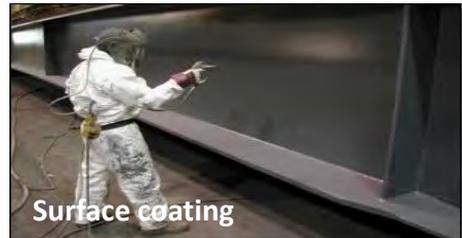


Application

- **Anti-corrosion coatings:** Protection corrosion for vehicle and steel structure.



Under coating



Surface coating

Description

All weather cold mix pavement repair materials. The product utilizing Korean technology consists of resin binder with high molecular type of temperature mix with aggregates. Highly suitable for PATCHING POT HOLES (Road repairs & maintenance).

Usage /Purpose

- Pot holes
- Cable laying
- Joint section of bridges
- Uneven road levels

Advantage

- Easy to apply.
- No need to apply tack coat.
- No compactor required (utilize rolling pressure from passing vehicles).
- Increases its binding strength overtime.
- Immediately open to traffic after application even under heavy traffic conditions.

Additional advantages

Save Laying Time

Save Costs

Save Manpower

Product data

- Pack size: 25 kg paper bagl
- Colour: Black
- Product Code: MK/PnG

Technical information

Characteristic	Method	Range
Density, g/cm ³	ASTM D6927	2.2 - 2.5
Flow, 1/100cm	ASTM D6927	20 - 40

Application instruction

- Apply only in dry weather at temperatures of at least +5 °C.
- Remove the dirt and dust from the 'affected area'.
- Pour the 'Patch n Go' onto the area.
- Ensure the 'Patch n Go' is evenly spread on the 'affected area'.
- Level the 'Patch n Go' on the area with a spade.
- Utilize rolling pressure from passing vehicles for compaction.
- Opens to traffic immediately after application.
- Patched area will stabilize overtime.

Application temperature

+ 5°C

Coverage

The coverage is 1/4 sqm hole (25kg bag). However, the coverage will depend on the porosity of the substrate. In order to ascertain the exact converge, a trial application is carried out at site.

Coverage of 25kg, Patch N Go

= 1/4 sqm hole
(500mm x 500mm x 30mm)

Clean up

Tool and equipment must be cleaned with kerosene or cleaner immediately after use.

Storage and shelf life

- Products should be kept sealed in a cool, dry, well ventilated environment and all precautions taken against fire.
- In originally sealed packages it can be stored for a minimum of 1year. Excessive exposure to sunlight and UV will result in the deterioration of the product quality.

Health and safety

- Product contains volatile hydrocarbon solvent. Avoid inhalation of vapors and ensure there is adequate ventilation in the work place. If swallowed seek medical attention immediately.
- Gloves, protective masks and goggles should be worn during application.
- Flammable. Keep away from ignition sources.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.
- For additional information see relevant Material Safety Data Sheet.

Usage

- Road repairs and maintenance: Pot holes and thermal crack



■ Application procedure

- 1) Remove the dirt and dust from the 'affected area'.
- 2) Pour the 'Patch n Go' onto the area.
- 3) Ensure the 'Patch n Go' is evenly spread on the 'affected area'. Level the 'Patch n Go' on the area with a spade.
- 4) Utilize rolling pressure from passing vehicles for compaction.
- 5) Patched area will stabilize overtime.



Description

Liquid asphalt in which water has been suspended. When the water evaporates, the bitumen hardens. They are primarily used for tack coats for use in between hot mix asphalt layers and prime coats for thin hot mix surfacing layers or a chip seal pavements.

Usage /Purpose

- It is widely used for tacking in road construction. The application is between upper sub-base layer and bitumen layer.

Advantage

- Good adhesion to concrete and asphalt surface.
- Economical.

Standards

- ASTM D2397 - Standard Specification for Cationic Emulsified Asphalt.
- ASTM D997 - Standard Specification for Emulsified Asphalt.
- MS 161: 1884 – Specification for cationic bitumen emulsions for use in pavement applications.

Product data

- Pack size: 205L Drum
- Colour: Black
- Product Code: MK/EB

Technical information

Characteristic	Method	K-140	RS-1K	SS-1K
Saybolt Furol Viscosity (sec)	ASTM D224	Max. 25	Max. 50	20 - 100
Bitumen Residue (wt%)	ASTM D224	Min. 38	Min. 50	Min. 57
Sieve Test (%)	ASTM D224	Max. 0.1	Max. 0.1	Max. 0.1
Storage Stability, (%)	ASTM D224	Max. 1	Max. 1	Max. 1
Solubility in Trichloroethylene (wt%)	ASTM D2042	Min. 97.5	Min. 97.5	Min. 97.5
Penetration (dmm)	ASTM D5	60 - 200	60 - 200	60 - 200

Usage

- Road construction



Construction, Road paving, Sealants and Water Proofing Solutions



Contact

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