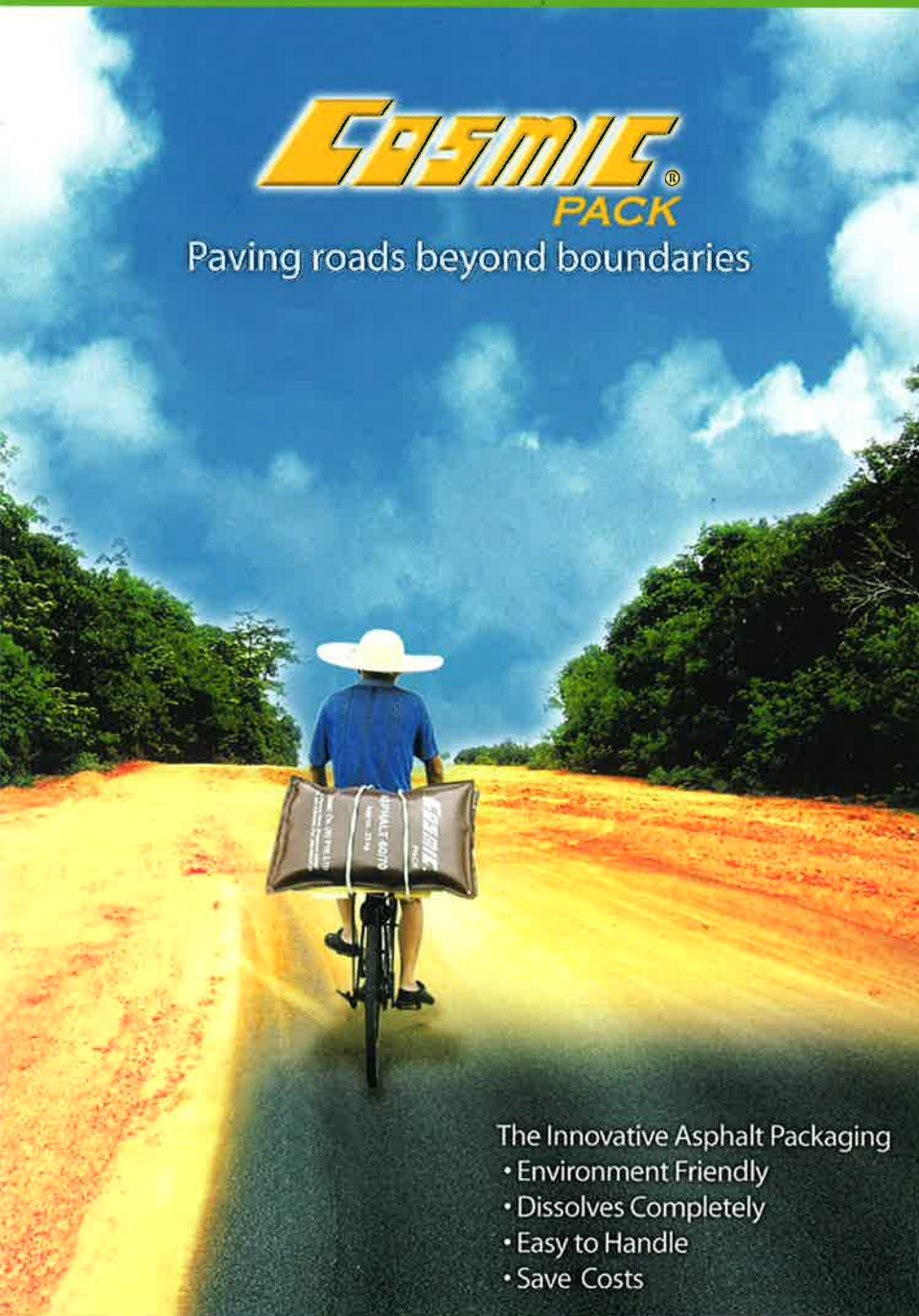


Environmentally
Friendly

INTRODUCING THE REVOLUTIONARY, EASY TO HANDLE & TRANSPORT, FULLY SOLUBLE AND CONSUMABLE ASPHALT SOFT PACKING

COSMIC[®] PACK

Paving roads beyond boundaries



The Innovative Asphalt Packaging

- Environment Friendly
- Dissolves Completely
- Easy to Handle
- Save Costs

BENEFITS

Asphalt packed in Cosmicpack offer the following 4 Main Benefits

- **Environmentally Friendly**
 - No dirty drums to dispose off.
 - Conservation of scarce energy (to manufacture steel)
- **Easy Handling**
 - 25kg pack is safe human carrying weight.
 - It can be carried on the shoulder, on the back of bicycles and motorbikes.
 - 1MT jumbo bag is a convenient fork-lift handling size and 20 foot container stacking.
- **Fully Consumable**
 - Cosmicpack is fully compatible with asphalt.
 - It dissolves in the asphalt, leaving behind no residue.
- **Save Costs / Lower Total Cost**
 - In packaging material.
 - In transportation.
 - In full utilization / consumption.

Please also refer to the Detailed Benefits stated on the bag.



APPLICATION OF COSMICPACK

- Asphalt packed in Cosmicpack is simply fed into heating tank with a heating temperature of at least 125°C in order to allow the Cosmicpack to melt completely.
- No plastic or packing materials are left floating in the tank after melting as it dissolves completely.
- The Cosmicpack materials improve the quality and performance of the asphalt through improvement in the softening point.



Easy mass quantity transportation in 1MT Jumbo bags

Easy transportation of 25kg bags



PROPER HANDLING PROCEDURES

As with any products, packed asphalt is a valuable asset or property. Good handling practices will minimize the possibility of damage or leakage.



For sales enquires, please contact your local Authorised Distributors:

With the Jumbo Bag

The Jumbo bag serves a few purposes :

- Carrier for easy handling.
- White colour to minimize heat absorption.

Do's

- Store indoors, or under shade, whenever possible.
- Stack the bags properly and evenly, to avoid uneven loading and stress.

Don'ts

- Do not use hooks on the Jumbo bag and Cosmicpack bag.
- Do not drag the bags.
- Do not let the slings overly squeeze on the packs when lifting. (The sling is intentionally made short for loading onto the top layer inside the 20 foot container).
- Do not stack beyond 2 Jumbo bags (Equivalent to 2 heights in the 20 foot container).

Without the Jumbo Bag

Do's

- Store indoors, whenever possible.
- If stored outdoors: Keep the bags of asphalt packed in Cosmicpack in the shade, or at least away from direct heat.
- Cover the bags with white or light colour PP or PE sheet.
- Stack the bags properly and evenly, to avoid uneven loading and stress.
- Use plywood in between layers for even loading.

Don'ts

- Do not use hooks on the Cosmicpack bag.
- Do not drag the bags.
- Do not stack beyond 10 layers.

COSMIC[®]
PACK

ASPHALT 60/70

Approx. 25kg

COSMIC OIL (S) PTE LTD

130 Pioneer Road, Singapore 639587
Tel: (65) 62942828, Fax: (65) 68633733

REVOLUTIONARY
ASPHALT
PACKING

COSMIC[®]

The COSMICPACK Bag

Bag Capacity

- **Standard 25 kg weight**
(Gross = Net, as bag is fully dissolved / consumed)

Specifications

- **Thickness : 0.75 +/- 0.05 mm**
- **Weight (net of off-cuts) : 0.60 +/- 0.05 kg**
- **Weight (net) of Cosmicpack : 24.0 +/- 2.0kg / MT**

Benefits

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COSMICPACK is developed and patented by Cosmic Asphalt Technology Pte. Ltd., (Patent pending SG03/00101)



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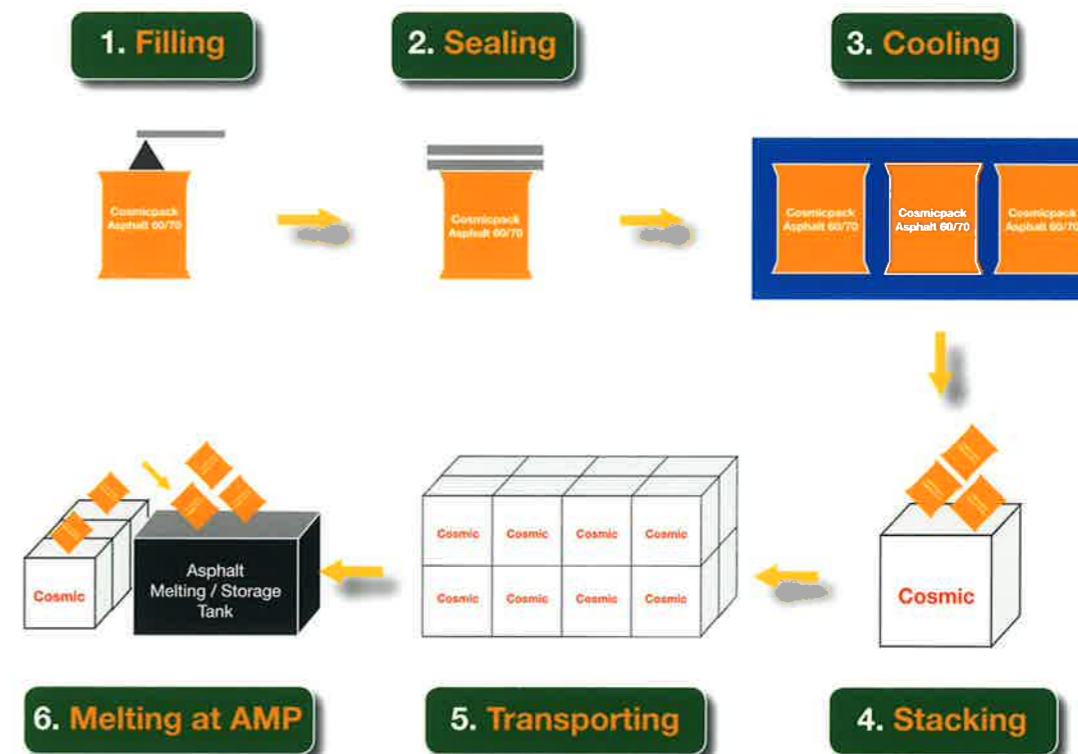
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Process Flow Chart



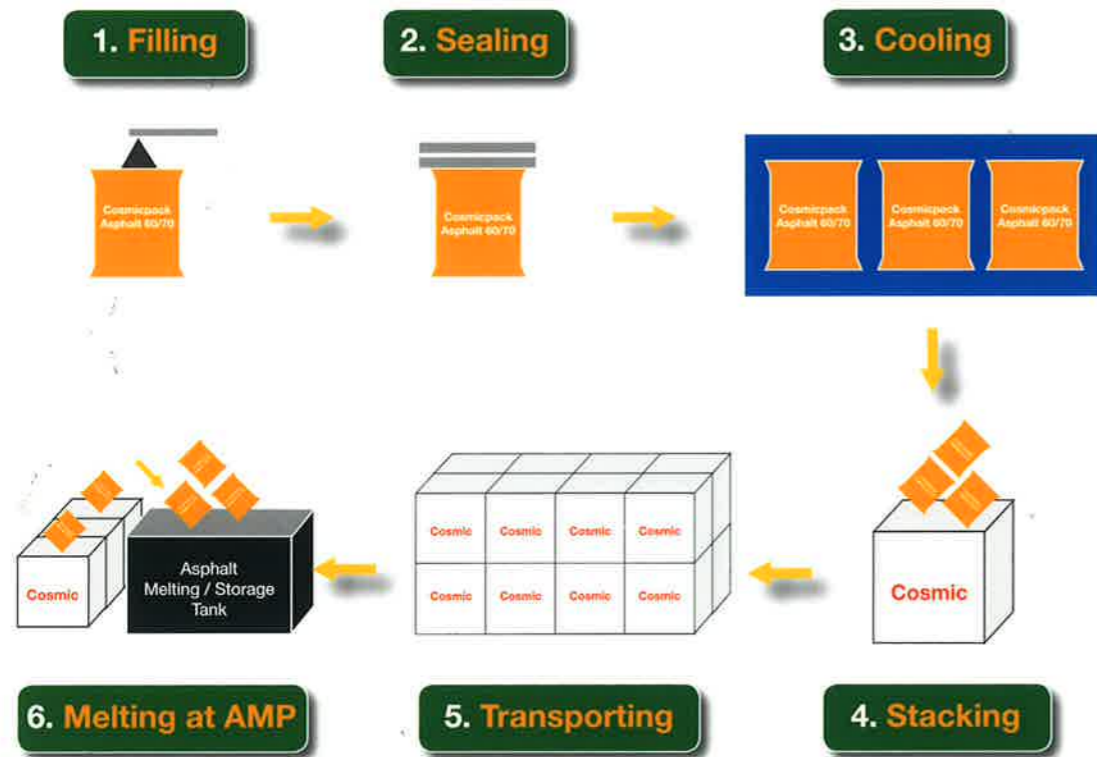
Filling



Sealing



Process Flow Chart



Filling



Sealing

Packing Line



The General View (In Operation)



The General View (As Installed)

Designed by Cosmic Asphalt Technology Pte. Ltd.

Packing Line Specifications

This packing line can be used to pack

- Normal asphalt
- Multi-grade asphalt
- Polymer modified asphalt
- Coloured asphalt

COMPACT MODULAR Self-Contained Design Concept:

- **Only approx. 24 sq. m. land area (6m L x 4m W x 3m H)**
- **Raised platform for space savings**
- **Heating Facilities / System**
 - In-line Heater
 - Pump (Hi-temp.)
 - Insulated and heat-traced filling lines
- **2 + 2 filling nozzles**
- **2 sealing heads**
- **50 units of filling pails (for water-cool)**
- **Direction-controlled conveyor line:**
Roller bi-directional & ball universal