



Pilipinas Shell Petroleum Corporation

# CUTBACK MC-70 / 250 / 800

## CUTBACK BITUMEN

### 1. Description

Shell Cutback MC-70 is a medium curing (MC) cut-back asphalt consisting of penetration grade asphalt cement and diluent or 'cutter' of medium volatility. The diluent temporarily reduces the viscosity of the asphalt cement for ease of handling and application. After application the diluent evaporates, leaving asphalt cement to perform its function.

Shell Cutback MC-70 conforms to the specifications of ASTM D2027 (Medium-Curing Asphalt) or AASHTO M82.

### 2. Uses

The major use for Shell Cutback MC-70 is in the road maintenance industry where it is used as a **prime coat** of the base course prior to placing of the bituminous surface course. Its purpose is to bind the granular material of the base course to the asphalt layer. Usual application is by spray using a distributor.

Other uses of Shell Cutback include the following:

- Roofing - As a waterproofing membrane and as an adhesive to stick chippings onto a flat, horizontal roof to minimise the effects of weathering from the sun.
- Damp-Proof Courses - Used as damp-proof membranes in concrete floors particularly for small repairs or where extensions are keyed-in to existing structures.
- Fish Net Coating - to prolong service life of fish nets.

### Shell Cutback Typical Properties

	Test Method	MC-70	MC-250	MC-800
Kinematic viscosity @ 60°C, cSt	ASTM D2170	70 - 140	250 - 500	800 - 1600
Flash point, Tag open cup, °C	ASTM D1310	38 min	66 min	66 min
Water, %	ASTM D95	0.2 max	0.2 max.	0.2 max.
Distillation test:	ASTM D402			
Distillate, % by vol. of total distillate to 360 °C				
to 225 °C		0 - 20	0 -10	-
to 260 °C		20 - 60	15 -55	0 - 35
to 316 °C		65 - 90	60 -87	45 - 80
Residue from distillation to 360 °C, % volume of original sample		55 min	67 min	75 min
Test on residue from distillation:				
Viscosity @ 60 °C, P		300 -1200	300 -1200	300 -1200
Ductility @ 25 °C, cm.	ASTM D113	100 min.	100 min	100 min
Solubility in trichloroethylene, %	ASTM D2042	99.0 min	99.0 min	99.0 min

### 3. Safe Handling and Storage:

#### 3.1 Handling:

- Avoid contact with skin, eyes and clothing.
- Avoid breathing vapour, spray or mists.
- Do not breath fumes which may accumulate in the vapour head-space of containers.

#### 3.2 Storage:

- Keep drums in a cool, well-ventilated place.
- Keep away from sources of ignition.
- Prevent ingress of water.

### 4. Packaging

Shell Cutback MC-70 is available in bulk and in 200 kg capacity steel drums.