

RUBBER PRODUCTS

RAILWAY · INFRASTRUCTURE · ENGINEERING



MALAYSIAN RUBBER EXPORT PROMOTION COUNCIL



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MALAYSIAN RUBBER BOARD

Rubberised Road

Rubberised road based on CULPUMP MODIFIED BITUMEN (Patent No: PI 2015022476)

Procedure

- 1 Preparation of Culpump Modified Binder (CMB)
- 2 Preparation of Culpump Modified Asphalt (CMA)



Collaboration with



Performance Comparison of The Products

TEST	CMB	SPECIFICATION
PMB PRIOR (RTFOT)		
Viscosity, max. @ 135°C, test temperature 135°C	< 3.0	Max 3.0
Dynamic shear, G* sin δ minimum 1.00 kPa, 10 rad/s, test temperature	equivalent	76
Penetration, 100 g, 5 s, 25 °C, 0.1mm	38.0	Not stated
Ring and ball softening point, minimum, °C	equivalent	60
Flash point, minimum, °C	> 230	230
PMB AFTER (RTFOT)		
Mass loss, maximum %	< 1	1
PG Grading	equivalent	PG76-22

Performance Of CMB Concrete

PARAMETER	CMB	SPECIFICATION
Stability, S	Comply	>10000 N
Flow, F	Comply	2.0 – 5.0 mm
Stiffness, S/F	Comply	>2600 N/mm
Air Void in Mix (VM)	Comply	3.0 – 5.0 %
Voids in Aggregate filled with bitumen (VFB)	Comply	70 – 80%

Advanced Engineering RUBBER PRODUCT

JAMBATAN SULTAN ABDUL HALIM MUADZAM SHAH SECOND PENANG BRIDGE



ABLE TO PROTECT THE BRIDGE AGAINST EARTHQUAKES

2234 BEARINGS WERE SUCCESSFULLY INSTALLED

DESIGNED BY MALAYSIAN RUBBER BOARD

BEARINGS INSPECTION AND TEST

THE LONGEST BRIDGE IN SOUTH EAST ASIA