



The road forward

# COLRUB A™

## Bitumen Rubber

Product Data Sheet 2012/12

### DESCRIPTION

**COLRUB A™** is a non-homogenous binder manufactured from 50/70 penetration grade bitumen, modified with a relatively high percentage of rubber crumbs and a small amount of aromatic extender oil. The rubber used is processed from recycled tyres to meet a specific grading and natural rubber content.

### USES

**COLRUB A™** is used as a binder in hot-mix asphalt for mainly overlaying surfaces with active cracks. It is suitable for use in open graded mixes requiring high binder film thicknesses such as porous asphalt.

### PROPERTIES

**COLRUB A™** has improved rheological binder properties across the in-service temperature range when compared to conventional hot binders. Increased binder durability due to presence of carbon black in the rubber.

### SPECIFICATIONS

**COLRUB A™** conforms to the A-R1 specification for bitumen rubber for hot-mix asphalt.

BINDER PROPERTIES	REQUIREMENT		TEST METHOD
	Min	Max	
Softening point, °C	55	65	ASTM D36
Dynamic viscosity @ 190° C, Pa·s	20	50	MB-13
Compression recovery: 5 minutes, %	80	N/A	MB-11
Compression recovery: 1 hour, %	70	N/A	MB-11
Compression recovery: 4 days, %	N/A	N/A	MB-11
Resilience, %	13	40	MB-10
Flow, mm	10	50	MB-12

### DIRECTIONS FOR USE

- COLRUB A™** is blended at an asphalt plant with a mobile high-speed blender.
- The blended product is allowed to react in a superheated compartmented tank fitted with augers before being mixed with heated aggregate in the asphalt plant.
- Recommended storage and handling criteria for **COLRUB A™** are as follows:

Asphalt mixing temperature	190 - 210°C	
Maximum storage temperature	< 24 hours**	< 3 days
	165°C	140°C

\* Product must be used within six hours of reaction time to avoid degradation of the binder properties.

\*\* Important to circulate binder during heating as prolonged intense heating will cause carbonisation of binder on flues.

#### Head Office

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