



THE CHEMICAL DIVISION OF COLAS

CWM BG1

Product Information

CWM BG1 is a mixture of surface active agents used as an additive for bitumen. Hot Mixes manufactured with bitumen containing CWM BG1 are known as Warm Mixes as they can be manufactured at lower than normal temperatures and laid at temperatures as low as 120 °C.

Storage & Handling (refer to Chemoran guide)

CWM BG1 must be protected from exposure to water and to long-term exposure to atmospheric moisture. When mixed with water, a chemical reaction can occur which may lead to a reduction in the performance of the additive.

Water may also flash/splash when added to the hot bitumen. Atmospheric moisture contamination takes place slowly on the additive surface exposed to moist air.

When in use, protect from rain and seal tightly when not in use. Do not leave small amounts in containers for long periods before using it. Inspect the storage container and all seals for damage or leaks. CWM BG1 must be protected from frost. Continued cold weather storage can lead to major increase in the viscosity of the CWM BG1. This can lead to difficulties in pumping the additive.

Table of Parameters

Characteristics	Methods	Specification	Typical Values
Physical state at 20°C	Visual test	Liquid	-
Alkalinity index (mgHCl/g)	MOPCST PC-006	>120	-
Flash point, closed cup (°C)	EN 22719	>130	140
Cloud point	CHEM 003	-	<0°C

Also some precipitation may take place at low temperatures. If this occurs the additive should be heated or agitated thoroughly to insure a homogeneous mixture before use. The cloud point of CWM BG1 is below 0°C. CWM BG1 is compatible with Chemoran adhesion agents.

Packing

IBC of 940kg

Temp.	Density	Viscosity
°C	(g/cm ³)	(mPa.s)
15	-	728
20	0.985	497
30	0.977	252
40	0.97	137
50	0.962	78

Formulation Example

Application	Bitumen Type & Dosage	CWM BG1 Dosage
BBTM 0/10	5.6% Pmb	0.4% of binder
EME 0/14	5.4% 10/20	0.4% of binder
GB 0/14 with 30% RAP	3.1% 35/50	0.4% of total binder content

Once added to the bitumen, CWM BG1 will remain active in the stored bitumen for up to three days.