

Cationic 70% – (C70BF1)

Cationic 70 is a road bitumen emulsion with a 70% binder content.

- Tried and tested binder for use on regional and country Roads
- Incorporating specially developed adhesion agents to promote effective break.
- Manufactured to an ISO 9001:2008 Quality Production System & ISO 14001:2004 Environmental Management System.
- Conforms with the NRA Binder Specifications: RC380/2009 Table 3 & IS EN 13808:2005

TECHNICAL INFORMATION

COMPOSITION: 200 pen bitumen, water, bitumen emulsifiers, adhesion agents and volatile oil.

TEMPERATURE: Application temperature is 80-85°C

STORAGE TEMPERATURE:

Protect from frost.

Tank manhole openings must be tightly closed to prevent evaporation.

Store at temperatures between 40°C and 70°C.

Before spraying heat to 80 -85°C and circulate.

FIRE: Non Flammable, but will boil and develop steam pressure (>95°C)

Uses

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| <ul style="list-style-type: none"> > Excellent adhesion to damp uncoated aggregates. > Suitable for use with the Sandwich Surface Dressing technique. > Low temperature application 80-85°C which saves on fuel | <ul style="list-style-type: none"> > Increased productivity > No wetting agents required > Excellent sealing ability > No fire risks. > No dangerous fumes. |
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COLD CHON - Cationic 70%

Application

Application rates for Cationic 70% will vary depending on site conditions, construction practices and weather conditions. This emulsion is suitable for sandwich surface dressing.

The following table provides recommended target rates of spread for Cationic 70%.

Rate of spread of binder and chippings for **BASIC DESIGN** of multiple layer surface dressings

Type	Nominal Sizes mm		Rate of Spread of chippings		Rate of Spread of Binder	
	1st Layer	2nd Layer	1st Layer l/m ²	2nd Layer l/m ²	1st Layer l/m ²	2nd Layer l/m ²
Racked-In*	14/20	6/10	10 - 12.5	5 - 7	2.4	-
	10/14	2/6	8 - 10.5	3.5 - 4.5	1.9	-
	6/10	2/6	5 - 7	3 - 4	1.6	-
Double	14/20	6/10	10.5 - 13	6 - 8.5	1.3	1.4
	10/14	2/6	8.5 - 11	4 - 5.5	1.1	1.2
	6/10	2/6	5.5 - 7.5	4 - 5	0.9	1.0
Sandwich	14/20	2/6	10.5 - 13	4 - 5.5	-	2.0
	10/14	2/6	8.5 - 11	4 - 5.5	-	1.8

Recommended spraying rates are as per the IAT Guidelines for Surface Dressing in Ireland 2nd Edition February 2007. * For racked in surface dressings, the rates of spread of chippings and binder are intended to permanently hold a significant proportion of the smaller chippings.

When surface dressing on very hard, very soft, difficult or critical roads / sites, please contact our technical staff for further advice on **(091) 794650**

Properties of Cationic Bitumen Emulsion: C70BF1 Cationic 70%

Property	Test Method	Unit	NRA Binder Specification 2011	Typical Value
Perceptible Properties	IS EN 1425	None	TBR (Class 1)	Pass
Particle Polarity	IS EN 1430	None	Positive (Class 2)	Positive
Breaking Value	IS EN 13075-1	None	*TBR (Class 1)	90
Residue on Sieving 500µm sieve (percent by mass)	IS EN 1429	% by mass	≤ 0.2 (Class 3)	0.1
Binder Content ^b (by water content)	IS EN 1428	% by mass	67 - 71 (Class 8)	69.5
Recovered Binder Content ^c (by distillation)	IS EN 1431	% by mass	≥ 67(Class 8)	69.2
Oil Distillate Content	IS EN 1431	% by mass	≤ 3 (Class 3)	1.0
Penetration on residue from Distillation @ 25°C	IS EN 1426	0.1mm	100 - 250	200
Viscosity, Redwood No 11 @ 85°C	BS 434	Second	25 - 60	40