



Surface Dressing Emulsions

Premium Polymer 80

– (C70BPF1)

A PREMIUM POLYMER MODIFIED BINDER

PREMIUM POLYMER 80 is a high bitumen content, highly polymerised emulsion for surface dressing.

- Suitable for all categories of national, regional and county roads.
- 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, block co-polymer 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

PREMIUM POLYMER 80 has a high Polymer content and contains more bitumen in comparison to Polymer 70. It is ideal to use at locations of high stress such as busy junctions and steep gradients.

Application

PREMIUM POLYMER 80 is supplied in bulk by road tankers and is applied by standard spraying equipment. Rates of spread for Premium Polymer 80 will vary depending on site and weather conditions as well as construction practice.

The following table provides recommended target rates of spread for Premium Polymer 80.

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

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: C70BPF1 Polymer 80

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)	100
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 EN1428	% by mass	≥ 70 (Class 9)	76.5
Recovered Binder Content ^c (by distillation)	IS EN 1431	% by mass	≥ 70 (Class 9)	76.5
Oil Distillate Content	IS EN 1431	% by mass	≤ 3 (Class 3)	1.0
Viscosity, Redwood No 11 @ 85°C	BS 434	Second	25-60	40