

## **Bitumen Emulsions**

Bitumen emulsions are two-phased systems consisting of bitumen, water, and one or more additives to assist in formation and stabilization and to modify the properties of the emulsion.

Bitumen emulsions can be divided into four classes. The first two are, by far, the most widely used:

- Cationic emulsions
- Anionic emulsions
- Non-ionic emulsions
- Clay-stabilized emulsions

Bitumen emulsions are divided into three categories in terms of setting:

1. Rapid-setting (RS)
2. Medium-setting (MS)
3. Slow-setting (SS)

<b>Anionic Emulsions</b>		
<b>RS</b>	<b>MS</b>	<b>SS</b>
RS-1	MS-1	SS-1
RS-2	MS-2	SS-1h
HFRS-2	MS-2h	
	HFMS-1	
	HFMS-2	
	HFMS-2h	
	HFMS-2s	

<b>Cationic Emulsions</b>		
<b>CRS</b>	<b>CMS</b>	<b>CSS</b>
CRS-1	CMS-1	CSS-1
CRS-2	MS-2h	CSS-1h