

Emulsifier BR 27 TS

Application

Emulsifier for Slow-setting and Clay Stabilised Bitumen Emulsions

Advantages

BR 27TX is a liquid water-soluble emulsifier for slow-setting emulsions for use in a range of industrial applications including water proofing and roofing.

BR 27TX can be used alone or as a co-emulsifier in combination with certain clays such as bentonite.

Clay stabilised emulsions with BR 27TX are extremely slow setting and can be applied by brush, squeegee or spray. The addition level of clay dictates the viscosity of the emulsion and it is possible to make highly viscous products with correct formulation.

Use

Type of Emulsion % 27TX % Clay Water phase pH

Type of Emulsion	% 27TX	% Clay	Water phase pH
Slow-setting	1 to 2	11 to 12	Clay stabilised 1 to 2
	2	11 to 12	0.5 to

When making clay stabilised emulsions, a 5 to 8 % clay slurry should be prepared in advance of emulsion manufacture and left to stand for a minimum of 12 hours to allow the clay to become fully saturated.

Good quality clays with low silicate content should be utilised to avoid damage to the emulsion mill. The water phase should be prepared by first diluting the clay slurry with the required amount of water followed by addition of BR 27TX and finally the pH modifier. If high viscosity emulsions are required potassium hydroxide must be used as base to achieve optimum swelling of the clay.

BR 27TX emulsions can be formulated to pass the ASTM cement mix test through the incorporation of 0.1 to 0.5 % pentasodium tripolyphosphate in the emulsion formulation.

Typical properties

Chemical and physical data Typical values

Appearance at 20 °C clear liquid

Density at 25 °C, kg/m³ 1138

Cloud Point, °C - 9

Flash Point, °C >100 Viscosity at 25 °C, mPa.s 30

Note: Above values are averages and subject to minor variations.

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BOR

Specification

Limits Method

Appearance at 25 °C liquid
Solids 39 – 41 %

**Storage
handling**

and BR 27TX is delivered in 220 litre polyethylene drums (220 kg net) or in bulk. The product is stable for a minimum of two years in its original container at room temperature.

**Handling and
Safety**

A Safety Data Sheet is available.

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