

## Product

<b>Product Name:</b> BITUSEAL ENAMEL	<b>Standard:</b> EN 10300 Category 2, Grade b
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### Product Description

The Bituseal Enamel is based on a specially selected bitumen, modified with high performance engineering polymers. This polymer modification ensures improvements of a number of the product's qualities, e.g. flexibility, adhesion and durability. Bituseal Enamel is supplied in different types/grades, depending on the varying requirements for corrosion protection materials for pipelines.

### Delivery

Bituseal Enamel is available cold in 20 kg block or hot in bulk.

### Application

Bituseal Enamel is applied to steel pipes, previously primed with Bituseal Primer, at 190-230°C using computer controlled extrusion technology, which ensures an optimum coating quality. Optimum adhesion and bleed-through is obtained when the pipe surface temperature prior to coating is 30-50°C. However, minimum surface temperature is 15°C and 3°C above the dew point. Minimum enamel thickness is 4.0mm.

### Storage

Heated Bituseal Enamel is to be stored under constant low-speed stirring. Storage temperature and duration depends on the Bituseal grade stored.

### Standards

The Bituseal Enamel meets or exceeds all the performance requirements of EN 10300.

### Quality Control

All raw materials for Bituseal Enamel are tested and approved in the laboratories of RAHA Bitumen Co. The quality of the finished enamel is controlled to either EN 10300 or the customer's specific requirements and a quality certificate is issued for each batch produced.



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## Bituseal Coatings

Bituseal Enamel is suitable for pipelines operating at temperatures in the range -30°C to 90°C. The enamel is environmentally safe.

## Mechanical Protection

A polypropylene shield can be applied to the Bituseal coated pipe in order to obtain improved mechanical protection of onshore pipelines.

BITUSEAL ENAMEL Category 2, Grade b Technical Data			
Properties	Unit	Requirement	Method of test
Softening Point	°C	110 to 130	EN 1427
Penetration	0.1 mm	5 to 17	EN 1426
Density at 25 °C	g/cm <sup>3</sup>	1.2 to 1.4	EN 10300, Annex L
Filler Content	%	25 to 35	EN 10300, Annex K
Flash Point	°C	Min 260	EN/ISO 2592
Sag at 75 °C , 24 h	°C	Max 1.5	EN 10300, Annex D
Impact disbanded area @ 0 °C	mm <sup>2</sup>	Max 6500	EN 10300, Annex E
Peel Initial / Delayed at			
30 °C		50	EN 10300, Annex F, F.4.2
40 °C	N/20mm	80	
50 °C		30	
60 °C		20	
Bend at -10 °C	°C	Min 15	EN 10300, Annex G
Catholic Disbanding, Disbanded radius after 28 day	mm	Max 7	EN 10300, Annex I



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