

PRODUCT DATA BULLETIN

Description and Typical Applications

INDULIN QTS is a unique asphalt emulsifier especially developed for micro-surfacing applications. Because of its high quality and reliable performance characteristics, INDULIN QTS is widely accepted in the paving industry worldwide for use in production of micro-surfacing emulsions.

Emulsions made with INDULIN QTS provide:

- Excellent mixing with a wide range of aggregates
- Controlled break
- Superior adhesion
- Reduced time to traffic
- Low settlement
- Viscosity stability with or without latex

Typical Properties

Physical form	Liquid
Boiling point, °C (°F)	>260 (500)
Density (lb/gal), 25°C (77°F)	7.9
Flash point, °C (°F)	225 (437)
pH, 15% aqueous, w/v, 25°C (77°F)	11.5

Use of INDULIN QTS

Typical Formulation by Weight

Asphalt, %	63.0
INDULIN QTS, %	1.2-1.8
Water, %	to 100.0
Latex, 63% solids, %	3.0-3.5
Hydrochloric acid	to pH 1.5-2.5

Note: Emulsions prepared with INDULIN QTS have been evaluated with natural and synthetic latices. Please contact us for soap preparation advice when using anionic latex. Because of the variations in bitumen, we recommend that the selection of latex be determined by the laboratory performing the mix design. Generally, when any of the components of the mix design is altered or changed, we strongly recommend that a "new" mix design be performed. In most cases, mineral filler, such as Portland cement or hydrated lime, is required to achieve optimum performance.

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Safety: Always refer to the Material Safety Data Sheet for detailed information on shipping, handling, storage, and use.

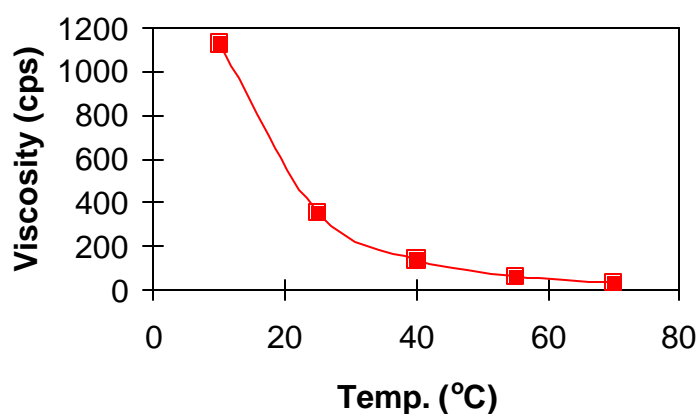
Important: The information provided herein is believed to be accurate and reliable, but is presented without guarantee on the part of MeadWestvaco Corporation. Further, nothing contained herein shall be taken as an inducement to violate any patent rights.

Storage

INDULIN QTS should be stored at temperatures between 30-50°C (86-122°F) under an inert atmosphere. Prolonged exposure to moisture or carbon dioxide reduces the product's activity; therefore, these conditions should be avoided.

Shipping

Freight Classification: Corrosive liquid, n.o.s.
Availability: Tank car, tank truck, 55-gal. non-returnable metal drums [425-lb. (192.8-kg.) net weight]
Shipping Point: Charleston, South Carolina, USA

Viscosity Curve**INDULIN QTS**

CAS Registry No.: Components listed in TSCA Inventory

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