



Technical Data Sheet

# DEUTEROL Emulgator BI

Emulsifier for bitumen emulsions

**Deuteron**<sup>®</sup>  
ADDITIVES TO YOUR SUCCESS

## ■ Product Characteristic

Appearance	yellow liquid
Density	approx. 0.93 g/cm <sup>3</sup>
Viscosity	approx. 250 mPa*s
Ionogenicity	cationic



## ■ Product Description

Deuteron Emulgator BI is a synthesis product of multifunctional organic bases and fatty acids with chain length from C14 to C20, mainly C18, with amines.

Deuteron Emulgator BI produces colloidal mixtures of road bitumen and water. The product is soluble in organic solvents such as alcohols or esters, and insoluble in water.

Deuteron Emulgator BI is largely insensitive to temperature. At least in the temperature range from 0 °C to 300 °C, neither turbidity nor changes in the aggregate state occur.

When processed in an aqueous-acidic system, the product, as a cationic emulsifier, gives good emulsion stability on one hand, but at the same time (in conjunction with suitable additives) also enables the emulsion to have a favourable breaking behaviour.

## ■ Applications

Deuteron Emulgator BI has been specially developed as an emulsifier for the production of bituminous emulsions with water or its further processing in road surfaces.

The field of application is mainly liquid cold bitumen for road repair works.

## ■ Dosage

The dosage depends on the application and processing conditions and must be checked and adjusted for each individual case.



Technical Data Sheet

# DEUTEROL Emulgator BI

Emulsifier for bitumen emulsions

**Deuteron**<sup>®</sup>  
ADDITIVES TO YOUR SUCCESS

## ■ Processing

The bitumen is mixed with the emulsifier and then with water in an emulsifying device. It can be mixed with gravel and sand to fill holes and gaps in the road surface. When the water leaves the bitumen-mixture (drying), the emulsion/dispersion breaks up and the bitumen becomes a hard mass. After approx. 6 hours the layers are cured and ready for traffic.

## ■ Storage Conditions

24 months at room temperature and dry conditions. Storage temperature should not exceed 35 °C.

## ■ Package Sizes

Steel drum (180 kg net)  
Plastic IBC (850 kg net)

## ■ Safety

According to Regulation (EC) No. 1272/2008 Deuteron Emulgator BI is classified as a dangerous product and therefore does need to be labelled.

For detailed information please refer to the Safety Data Sheet and Regulatory Information Sheet. The documents are also available on our website:

<https://www.deuteron.com/en/download-center/>

## ■ Deuteron: First class products for the coating industry

Deuteron GmbH successfully develops and sells innovative additives since 1977. Our product range consists of matting agents, anti-static additives, texturing additives, thickeners and UV initiators. In the course of our company history we have become an important partner of the national and international paint, lacquer and coating industry with sales partners around the globe.

This leaflet intends to give technical advice without warranty and does not claim to be complete.



DEUTERON GmbH  
In den Ellern 2-4  
28832 Achim, Germany

Phone: +49 (0) 421 48 99 03-0  
Fax +49 (0) 421 48 99 03-60

Mail [contact@deuteron.com](mailto:contact@deuteron.com)  
URL [www.deuteron.com](http://www.deuteron.com)

© 02.23 EN  
081-122331