

## Redicote® C-450-1

Emulsifier for cationic quick set bitumen emulsions for slurry and micro surfacing. Break retarder for quick set slurry surfacing and micro surfacing.

### Benefits and features

- High reactive aggregates**  
 Cationic quick-set emulsions made with Redicote C-450-1 provide mix time even with reactive aggregates and in hot weather conditions
- Medium and low reactive aggregates**  
 Used together with Redicote C-471 it provides emulsion recipes suitable for a wide range of aggregate reactivity and field conditions
- Water-soluble**  
 Its low viscosity and water solubility make it an ideal break retarder for slurry systems
- Micro surfacing**  
 Emulsions formulated with Redicote C-450-1 can meet specifications for micro surfacing as well as quick-set slurry surfacing

### Storage and handling

Redicote C-450-1 may be stored in carbon steel tanks. Bulk storage should be maintained at 25-50°C (77-122°F). Avoid extended heating above 65°C (150°F). Protect against exposure to moisture. Redicote C-450-1 contains amines and may cause severe irritation or burns to skin and eyes. Protective gloves and safety goggles must be worn when handling this product.

For further information consult the Safety Data Sheet.

### Packaging information

Redicote C-450-1 is available in bulk shipment, in tight head steel drums of 400 lbs (181 kg) net weight, or in one-way totes (IBCs) of 2000 lbs (907 kg) net weight.

### Dosage

|                             |          |                             |
|-----------------------------|----------|-----------------------------|
| Cationic quick set emulsion | 0.7-1.5% | pH 1-3<br>hydrochloric acid |
|-----------------------------|----------|-----------------------------|

### Specification

|                       |         |           |
|-----------------------|---------|-----------|
| Amine value, mg KOH/g | 445-485 | SMA CL002 |
| Water, %              | max 1   | SMA CL007 |

### Physical properties

|                    |             |
|--------------------|-------------|
| Appearance at 25°C | liquid      |
| Flash point, °C    | 200 (392°F) |
| Pour point, °C     | -5 (23°F)   |

|                       |      |      |      |      |    |
|-----------------------|------|------|------|------|----|
|                       | 10   | 20   | 30   | 40   | °C |
|                       | 50   | 68   | 86   | 104  | °F |
| Density, g/cc         | 0.97 | 0.96 | 0.96 | 0.95 |    |
| Density, lbs/U.S. gal | 8.08 | 8.04 | 8.00 | 7.96 |    |
| Viscosity, mPa.s (cP) | 8700 | 3100 | 1350 | 650  |    |

Physical properties are typical data based on our own measurements or derived from the literature. They do not constitute part of the delivery specification.

Contact us directly for detailed product information and sample request  
website | [nouryon.com/markets/asphalt](https://nouryon.com/markets/asphalt)  
email | [asphalt@nouryon.com](mailto:asphalt@nouryon.com)

# Nouryon

Nouryon is a global, specialty chemicals leader. Markets and consumers worldwide rely on our essential solutions to manufacture everyday products, such as personal care, cleaning goods, paints and coatings, agriculture and food, pharmaceuticals, and building products. Furthermore, the dedication of more than 7,900 employees with a shared commitment to our customers, business growth, safety, sustainability and innovation has resulted in a consistently strong financial performance. We operate in over 80 countries around the world with a portfolio of industry-leading brands. Visit our website and follow us @Nouryon and on LinkedIn.

All information concerning our products and/or all suggestions for handling and use contained herein (including formulation and toxicity information) are offered in good faith and are believed to be reliable. However, Nouryon makes no warranty express or implied (i) as to the accuracy or sufficiency of such information and/or suggestions, (ii) as to any product's merchantability or fitness for a particular use or (iii) that any suggested use (including use in any formulation) will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. The user must determine for itself by preliminary tests or otherwise the suitability of any product and of any information contained herein (including but not limited to formulation and toxicity information) for the user's purpose. The safety of any formulations described herein has not been established. The suitability and safety of a formulation should be confirmed in all respects by the user prior to use. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

Products mentioned are trademarks of Nouryon and registered in many countries.

[nouryon.com](https://nouryon.com)