



DESCRIPTION: **CRS-1** is a cationic emulsion primarily used as a tack coat. The emulsion used as a tack coat (either as is or diluted 50% with water) or fog seal (diluted 50% with water) and applied with a distributor. **CRS-1** consists of specially refined asphalt dispersed in water without the use of clay or similar substances as emulsifying or stabilizing agents. The cationic emulsified asphalt furnished under this specification shall be an emulsion of asphalt cement, water and emulsifying agent. The emulsified asphalt shall be homogeneous. It shall show no separation of asphalt after thorough mixing within 30 days after delivery.

USE: **CRS-1** tack coat emulsion is used to bond old pavement to new in many types of applications including: overlays of new pavement to old, pothole patching, joint, curb and gutter interfaces. **CRS-1** is also used to bond speed bumps and parking stops onto existing asphalt pavement.

PACKAGING: 5 U.S. gallon pails 55 U.S. gallon drums 250 U.S. gallon palletized poly-totes Bulk

COVERAGE: When used as a primary tack coat, **CRS-1** concentrate can be diluted with 50 % water. Average coverage for tack coat is .10 - .20 GAL/SQ YD.

PRODUCT PREPARATION: Stir or re-circulate thoroughly before using.

SURFACE PREPARATION: Asphalt preparation includes repairing or removing any surface defects and patching with hot mix or an approved acrylic modified cold mix and allowed to cure. Surface should be clean of any debris and dry.

APPLICATION METHOD: **CRS-1** can be applied with any method of hand application and spray techniques. A single coat is sufficient for most applications. If called for, a second coat can be applied after the first coat is dry to the touch. For all uses, the air and pavement temperatures at construction should be sufficiently high to allow the emulsion to fully cure. **CRS-1** should not be applied during rain or imminent threat of rain. Recommended temperatures for application range between 50 - 130°F.

CURING: **CRS-1** can accept foot traffic in as little as ½ hour after application under optimal conditions. At 60°F and 75% humidity, cure time is approximately three hours. Shaded areas may delay curing time depending on nighttime temperature and humidity. **CRS-1** is considered a rapid-setting tack coat emulsion.

STORAGE: Avoid excessive pumping with high shear pumps, especially if the emulsion is cool. Close container when not in use. Do not store containerized sealer in direct sunlight. Should not be exposed to freezing temperatures or above 140°F.

SAFETY PRECAUTIONS: Wear approved personal protective gear while cleaning and applying **CRS-1**. Refer to the Material Safety Data Sheet for complete health and safety information.

The specification conforms to AASHTO M208, ASTM D2397; Washington, Oregon State DOT and Idaho Transportation Department.

PROPERTIES OF CRS-1

Emulsion type (ASTM D2937 modified)	Cationic CRS-1 Asphalt Emulsion
Pound per gallon (ASTM D-244) @ 140°F	8.4
Residue by distillation, % by weight	60 % min
Viscosity @ 122°F (Saybolt)	20 – 100
Sieve, 20 degree mesh & retained	0.10 max
Penetration of residue, dmm @ 77 degrees Fahrenheit	100 – 250
Boiling point	212
Color	Brown

1.800.953.6490 . www.specialasphalt.com

3537 NW Saint Helens Rd
Portland, OR 97210-1313
Phone: 503.295.6490
Fax: 503.295.2901

5758 Crater Lake Ave
Central Point, OR 97502
Phone: 800.953.6490
Fax: 503.295.2901

3117 E Everett Ave
Spokane, WA 99217-6617
Phone: 509.489.5353
Fax: 509.489.5408

9243 ML King Jr Way S
Seattle, WA 98118-5314
Phone: 206.722.1413
Fax: 206.725.8626

SPECIAL ASPHALT PRODUCTS, INC. AND MANUFACTURER'S LIMITED WARRANTY

Special Asphalt Products, Inc. and Manufacturer warrants its products with the following conditions:

WHAT IS COVERED

Special Asphalt Products, Inc. warrants that according to internal laboratory testing this product meets applicable product specifications at the time of shipment as described in the applicable Product Specification in this Product Data Sheet. Special Asphalt Products, Inc. does not warrant that internal test results will be duplicated by other laboratories. The warranty period is one year commencing from the date of original shipment or three months from the date of use of the product, whichever occurs first, or said claims are barred.

WHAT IS NOT COVERED

Special Asphalt Products, Inc. assumes no liability for product failure due to improper installation or application, misuse, equipment failure, operator error or use of product with incompatible materials. Due to the unpredictable nature of site and substrate conditions, it is the buyer's and user's responsibility to determine and thoroughly confirm fitness and compatibility for use and to determine suitability of performance, efficacy and safety.

IN NO EVENT SHALL SPECIAL ASPHALT PRODUCTS, INC. BE LIABLE FOR INDIRECT, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OR LOSSES REGARDLESS OF THE THEORY OF LIABILITY EITHER WHILE UNDER WARRANTY OR THEREAFTER.

REMEDIES

Your sole and exclusive remedy for any failure of the product to meet specifications and/or breach of any applicable warranty is limited, at Special Asphalt Products, Inc. option, to full or partial refund of the original purchase price of the product or replacement of the product if determined by Special Asphalt Products, Inc. to be other than warranted. This shall be your sole and exclusive remedy whether in contract, tort or otherwise.

ADDITIONAL LIMITATIONS

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. TO THE EXTENT PERMITTED BY APPLICABLE LAW, Special Asphalt Products, Inc. SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTY REQUIRED BY APPLICABLE LAW SHALL BE LIMITED IN DURATION TO THE EXPRESS WARRANTY TERM.

GOVERNING LAW

THIS WARRANTY SHALL BE INTERPRETED, AND THE RIGHTS AND LIABILITIES OF THE PARTIES HERETO DETERMINED, IN ACCORDANCE WITH THE LAWS OF THE STATE OF OREGON.