

LK-CRX 500 CARBOXY SILICONE FLUID

LK- CRX 500 CARBOXY SILICONE FLUID is a carboxy modified silicone fluid that gives excellent body without yellowing the fabric. It is also an excellent base fluid for formulations giving high body. It is recommended for use with LK-ASF (Non-Reactive, R Series and SS series) fluids and LK EMS 5110 to enhance the bulkiness and bounce of the fiber and to give a unique fall.

FEATURES

- Gives a soft handle and excellent body with unique fall
- Non Yellowing
- Resistant to washing and abrasion
- Readily forms emulsions that are dilution stable
- Carboxy functional silicone
- Gives an elastomeric film when used with any LK ASF product or LK EMS 5110.
- 100% active
- Good Temperature stability and stable in mild acidic and neutral conditions.
- Emulsion Stable in up to 600-ppm hard water and 0.1% electrolyte.
- Antistatic

APPLICATIONS

LK- CRX 500 carboxy silicone fluid can be easily converted into emulsions by using non-ionic emulsifiers. These emulsions can be used in textiles & leather to significantly increase the body of the fabric depending on the amount used. They are useful on all substrates like cotton, wool, viscose, acrylic, polyester and blends to give a durable finish capable of withstanding multiple launderings.

LK CRX 500 is especially recommended for use with LK ASF fluids and LK EMS 5110 as a base fluid. Such blends would give all the features of the blending fluid along with reduced yellowing (if any) and increased body due to the Carboxy fluid. Such finishes also give an elastomeric finish with increased crease resistance.

LK CRX 500 is also a useful additive in polishes, giving excellent shine.

PRODUCT CHART¹

| Product Name | Specific Gravity | Refractive Index | Viscosity 25°C in cps (Brookfield Viscometer LV-03, 30rpm) | Appearance | Volatile Content (110°C /1 hr) |
|--------------|------------------|------------------|--|------------------------------|--------------------------------|
| LK CRX 500 | 0.97 | 1.409 | 2800 | Clear – slightly hazy liquid | <8% |

¹ Typical Values – Should not be considered as specifications.

SUGGESTED APPLICATION METHOD AND FORMULATION

Macro-emulsions are recommended for usage and are suitable for padding. The most suitable diluents for the emulsion are Water. To ensure performance of this product it should be ensured that the pH of the medium in which it is used is from 4-7 (i.e. non-alkaline)

Suggested emulsification process for LK CRX 500:

- | | | |
|---------------|-----|---|
| 1. LK-901 | :5 | % |
| 2. LF-CRX 500 | :15 | % |
| 3. Water-1 | :7 | % |
| 4. Water-2 | :73 | % |

(*Maintain emulsion mixture temperature below 50°C)

1. Charge LK-901 non-ionic emulsifier and Water -1 suitable mixer and mix for 10 minutes.
2. Add LK-CRX 500 slowly and stir for 60 minutes.
3. Add Water – 2 slowly with constant stirring until homogenous product is obtained.
4. Filter if necessary through a filter cloth. This gives a 20 ± 2 % solids emulsion.

PACKING

200-kg epoxy coated Mild Steel drums

SHELF LIFE

Nine months in the original container.

STORAGE & HANDLING

It is recommended that normal safety precautions (hand gloves & safety goggles) be taken while handling the product. The material should be stored in original ELKAY containers in a cool place and protected from direct exposure to sunlight.

The information provided to the customers in this data sheet is intended as a guideline and is provided in good faith. The information is believed to be accurate. Changes may occur from system to system as methods of use and conditions are beyond our control, hence **users are requested to evaluate the recommendations before actual application to get desired performance.**

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Internal References PS/Ref/03/03 DX30501