Technical Data Sheet

XIAMETER™ MEM-8797 Emulsion

A water-based softener that contains modified reactive amino functional silicone

Features & Benefits

- Very low yellowing
- Economical to use
- Soft, smooth hand
- Improved tear strength and wrinkly recovery
- Improved fabric elasticity
- Durable to washing and dry cleaning
- Good exhaustibility

Composition

- Cationic Silicone Emulsion

Applications

- Gives excellent softness as well as improved tear strength and crease recovery to knitted or woven fabrics

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Milky-white
Non-volatile content	%	40
pH		5–7
Emulsion type		Cationic
Diluent		Cold water

How To Use

Padding Process

XIAMETER™ MEM-8797 Emulsion can be diluted with cold water (only) in all preparations. If durable resins or other finishing agents are being used, XIAMETER MEM-8797 Emulsion is first diluted with an approximately equal weight of cold water and is added to the bath last of all. The pH of the liquor must always be below 7 (preferably in the range of 4.5 to 6.0) in the application bath. Adjustment should be made with diluted acetic acid.

The curing time and temperature necessary for conventional fabric finishing are adequate for maximum durability of XIAMETER MEM-8797 Emulsion. Excessive temperature and extended times should be avoided to prevent the possibility of fabric yellowing.

Form No. 95-431-01 A

How To Use (Cont.)

Exhaustion Process

XIAMETER MEM-8797 Emulsion can be used in exhaustion to cotton, PES/cotton and acrylic/wool fabrics. The concentration will vary with the fabric construction and fiber content of the fabric to achieve desired fabric handle. XIAMETER MEM-8797 Emulsion is not recommended for jet dyeing machines. Please contact us if you use this application method.

1. Predilute the required amount of XIAMETER MEM-8797 Emulsion with an approximately equal weight of cold water.
2. Control the liquor-to-goods ratio to the 20:1 to 8:1 range. Adjust the water pH to 4.5 to 6.0 with acetic acid before adding diluted XIAMETER MEM-8797 Emulsion to the exhaustion bath.
3. Add XIAMETER MEM-8797 Emulsion in a room temperature bath and run for 10 minutes. Raise the bath temperatures to 40 to 60°C (104 to 140°F) and maintain for 20 to 30 minutes. Complete exhaustion will then have taken place and the solution will be clear.
4. Hydroextract, then dry on a stenter, or tuble dry at 80 to 95°C (176 to 203°F) and cure at 120 to 180°C (248 to 356°F) for 30 to 60 seconds.

Precautions

1. Prior to XIAMETER MEM-8797 Emulsion treatment, scour goods in a nonionic detergent and thoroughly rinse followed by acid rinse for 5 minutes at pH 4–5. Any alkali residues on the goods or pH fluctuations of the process water can cause bath instability.
2. To stabilize the bath, addition of a surface active agent (nonylphenylethoxylate, 10–20 moles EO) is recommended at 1–3 grams per liter.

Dilution Stability

XIAMETER MEM-8797 Emulsion can be prediluted by 2 to 3 times of cold water and retains superior emulsion stability. The dilution waster must be softened, sterilized and adjusted to pH 5–6 before use. XIAMETER MEM-8797 Emulsion can be added to dilution water with gentle agitation to form a homogeneous dilution. It is not recommended to dilute by more than 7 times of water if a long storage time is required. Test emulsion dilution stability before operation.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life And Storage

When stored at or above 32°C (90°F) in the original unopened containers, this product has a usable life of 12 months from date of manufacture.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

http://www.xiameter.com

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