

Technical Data Sheet

XIAMETER™ MEM-1111 Emulsion

Very high molecular weight, reactive polydimethylsiloxane emulsion

Features & Benefits

- Firm, dry to very soft handle
- Improved tear strength on woven fabric
- Improved crease resistance
- Improved abrasion resistance
- Improved stretch recovery of knitted garments
- Very low yellowing
- XIAMETER™ MEM-1111 Emulsion imparts good softness to treated fabrics, without causing any yellowing. The emulsion can be crosslinked to form an elastic finish, imparting stretch recovery to knitted goods.

Applications

- Can be used to provide an elastomeric finish.
- Enhances the performance of traditional crease resist resin systems.

Typical Properties

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

Test ¹	Property	Unit	Result
0176B	Appearance		Milky white
0007A	рН		7–9
0208M	Active material	% w/w	40
	Emulsion type		Non ionic

^{1.} CTM: Corporate Test Method, copies of CTMs are available on request.

Description

XIAMETER MEM-1111 Emulsion contains a very high molecular weight, reactive, polydimethylsiloxane polymer. It can be used to enhance the performance of traditional crease resist resin systems. The slightly anionic character of the emulsion makes this material most suitable for application by padding. XIAMETER MEM-1111 Emulsion is typically used in fabric finishing formulations with organic softeners or as the major component.

Formulations of XIAMETER MEM-1111 Emulsion are best applied on conventional padding equipment. Exhaustion is not possible due to the slightly anionic character of XIAMETER MEM-1111 Emulsion. The pad bath formulation should give a pick-up of 0.5 to 2.0% silicone based on the dried weight of the fabric. Adjusting the ratios of the specific components will give a wide variety of handles and effects.

How To Use

- Scour goods in a non ionic detergent and rinse thoroughly. Follow with an acid rinse
 using 2 g/l of 80% acetic acid for 5 minutes. This will neutralize any alkali residues from
 previous processes that may cause pad bath instability and lead to oil spots on fabrics
 or gel on the rollers.
- 2. If crease resist resins or fillers are used, dilute in a separate tank in accordance with the manufacturers instructions. If hot, cool to below 30°C. Add to the mixing tank.
- 3. Predilute the required amount of XIAMETER MEM-1111 Emulsion with approximately equal weight of cold water and add to the mixing tank.
- 4. If crease resist resin catalyst is used, predilute with an equal weight of water and add to the mixing tank.
- 5. Top-up to final volume with cold water and adjust to pH 4.55.5 with 80% acetic acid.

Liquor temperature: 20-25°C

Liquor pH: 4.5–5.5 Drying: 110–130°C

Curing

Stenter: 30–70 seconds

Zone 1 110°C Zone 2 130°C Zone 3 150–190°C Other zones 150–190°C Oven 4–5 minutes 150°C

Specific times and temperatures will vary with fabrics and finishes.

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

Product should be stored at or below 50°C in original, unopened containers.

Limitations

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

Not intended for human injection.

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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