DOW CORNING

Product Information Textile

Dow Corning® HV-495 Emulsion

FEATURES & BENEFITS

- Natural to slick handle
- Improved tear strength on woven fabric
- Improved crease resistance
- Improved abrasion resistance
- Improved stretch recovery of knitted garments
- Fabric whiteness retention

Very high molecular weight, reactive polydimethylsiloxane emulsion

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. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	Unit	Result
0176B	Appearance		Milky white
0007A	рН		7
0862	Non-volatile content	%w/w	40
	Emulsion type		Slightly anionic

*CTM: Corporate Test Method, copies of CTMs are available on request.

DESCRIPTION

Dow Corning® HV-495 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. Dow Corning HV-495 Emulsion is typically used in fabric finishing formulations with organic softeners or as the major component.

Formulations of *Dow Corning* HV-495 Emulsion are best applied on conventional padding equipment. Exhaustion is not possible due to the slightly anionic character of *Dow Corning* HV-495 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.

BENEFITS

Dow Corning HV-495 Emulsion imparts good softness to treated fabrics, without causing any yellowing. The emulsion can be cross-linked to form an elastic finish, imparting stretch recovery to knitted goods.

HOW TO USE

- Scour goods in a non-ionic detergent and rinse thoroughly. Follow with an acid rinse using 2 g/1 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 manufacturer's instructions. If hot, cool to below 30°C (86°F). Add to the mixing tank.

- 3. Pre-dilute the required amount of Dow Corning HV-495 Emulsion with approximately equal weight of cold water and add to the mixing tank.
- 4. If crease resist resin catalyst is used, pre-dilute 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 4.5–5.5 with 80% acetic acid.

Liquor temperature:	20–25°C
	68–77°F
Liquor pH:	4.5-5.5
Drying:	110-130°C
	230–266°F

Curing

Stenter	30–70 seconds
Zone 1	110°C 30°F
Zone 2	130°C 266°F
Zone 3	150-190°C 302-374°F
Other zones	150-190°C 302-374°F
Oven 4–5 minutes	150°C 302°F

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 MATERIAL SAFETY DATA
SHEETS AND CONTAINER
LABELS FOR SAFE USE,
PHYSICAL AND HEALTH
HAZARD INFORMATION. THE
MATERIAL SAFETY DATA
SHEET IS AVAILABLE ON THE

DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 50°C (122°F) in the original unopened containers, this product has a usable life of 15 months from the date of production.

PACKAGING INFORMATION

This product is available 20 kg pails, 200 kg drums and 1000 kg IBC.

Samples are available in 1 kg bottles.

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 Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use

shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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