

Pressure *Dow Corning*[®] 7288 Sensitive Mica Binder

FEATURES

- Good bonding power
- Good anti-blocking
- Fast cure speed

COMPOSITION

- Polydimethylsiloxane polymer and resin dispersed in xylene solvent

APPLICATIONS

- Binder for flame retardant mica tapes

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	Unit	Result
Appearance		Clear to slight hazy, viscous liquid
Diluent		Xylene
Viscosity at 25 °C	mPa·s	20,000-60,000
Nonvolatile content	%	59-62
Flash point, closed cup	°C(°F)	27 (81)

DESCRIPTION

Dow Corning[®] 7288 Mica Binder is designed for flexible flame retardant mica tape applications as a bonding material to firmly bond glass fiber cloth and mica sheet.

Dow Corning[®] 7288 Mica Binder is especially formulated to offer good adhesion to both glass fiber cloth and mica sheets with good anti-blocking and fast cure speed at the same time. The strictly controlled viscosity range provides the users ease of operation control and consistency of high performance.

HOW TO USE

Dow Corning[®] 7288 Mica Binder can be applied to the substrate by any suitable adhesive coating techniques in industry, it can be used as supplied or diluted with compatible solvent for the ease of operation.

To enhance the bonding strength of *Dow Corning*[®] 7288 Mica Binder, free radical generator, such as, peroxides should be added to reinforce network structure and so as to improve

cohesive strength and bonding capability. The preferred peroxides include benzoyl peroxide and 2, 4-dichloro benzoyl peroxide. The peroxide concentration can be varied to obtain desired properties of *Dow Corning*[®] 7288 Mica Binder, through the change of peroxide addition level, one skilled in the art should be able to make cohesion emphasized or adhesion /bonding power emphasized products. The recommended dosage range from 1% to 3% on active ingredient basis.

To obtain the best performance, proper operation conditions need to be noticed:

Firstly, since the curing process is through free radical reaction, the thorough solvent removal is essential.

Secondly, to ensure the complete peroxide decomposition, enough dwell time and sufficient heat capacity is needed.

Finally, to maintain the reasonable working bath life, any peroxide accelerator or retardant should be avoided.

The following curing condition is provided in reference to ensure the best performance, it can be varied in accordance to suit different oven efficiency and design:

1st stage process: 65 – 80C x 2 mins.

2nd stage process: 180C x 2 mins.

HANDLING PRECAUTIONS

Dow Corning® 7288 Mica Binder contains highly flammable solvent. Keep away from heat and open flames. Avoid prolonged breathing of vapors. Use with adequate ventilation in work areas.

Direct eye or skin contact may cause slight irritation, which can be relieved by flushing the eye with water for 15 minutes.

It is recommended that safety glasses and rubber or plastic gloves be worn when handling this product.

If swallowed, do not induce vomiting but obtain medical attention. This product has a low order of toxicity but may cause poisoning if solvent is aspirated into the lungs.

Don't lean down the container during transfer and transportation as vent cap is used.

Product safety information required for safe use is not included. Before handling, read product and 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 www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 30°C in the original unopened containers, *Dow Corning*® 7288 Mica Binder has a useable life of 12 months from the date of production.

As vent cap is used in the packaging

drum, so during storage the drum should be kept upside.

PACKAGING

This product is available in 190kg containers with vent cap.

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, www.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 Dow Corning's 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.

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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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