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744 WHITE 310ML

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<u>1922181..</u>

ΕN

This Datasheet is presented by the manufacturer

DE

Dieses Datenblatt wird vom Hersteller bereitgestellt FR

Cette fiche technique est présentée par le fabricant



DOW CORNING® 744 Adhesive/Sealant

FEATURES

- One-part
- · Room temperature cure
- · Neutral alkoxy cure system
- Non-sag
- Excellent adhesion to many substrates
- Stable and flexible from -50°C to +180°C
- Flexible rubber protects against mechanical shock and thermal cycling stress at components
- Excellent dielectric properties

High performance silicone adhesive/sealant

APPLICATIONS

- Designed to provide long term bonding and to protect against moisture, environmental attack, mechanical and thermal shock as well as vibration where a room temperature curing product is preferred.
- Typical applications include: bonding of large components such as batteries or capacitors to circuit boards.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office prior to writing specifications on this product.

CTM* ASTM*	Property	Units	Value
	As supplied		
0176	Colour		White
	Consistency		Non-slump paste
0364 D2452	Extrusion rate ¹	g/minute	190
0095	Tack-free time ²	minutes	30
	Physical properties, cured 7 days relative humidity	s at 23°C and	50%
0022 D0792	Specific gravity at 23°C		1.4
0099 D2240	Durometer hardness, Shore A		39
0137A D412	Tensile strength	MPa	2.6
0137A D412	Elongation at break	%	620
0137A D412	Tear strength - die B	kN/m	14
	Electrical properties, cured 7 day humidity	ys at 23°C and	d 50% relative
0114 D149	Dielectric strength	kV/mm	16
0249 D257	Volume resistivity	Ohm.cm	1.0x10¹¥

- 1. Extrusion rate measured using 3.18mm diameter nozzle at 0.62 Mpa
- 2. Tack-free time is the time required for the product to develop a non-tacky surface based on adhesion to a polyethylene film.
- * CTM: Corporate Test Method, copies of CTMs are available on request. ASTM: American Society for Testing and Materials.

HOW TO USE

Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Certain plastics such as polypropylene and polytetrafluoroethylene may require specific surface treatment, such as chemical etching or plasma treatment to obtain optimum adhesion.

How to apply

Apply a bead of DOW CORNING 744 Adhesive/Sealant to one of the prepared surfaces, then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will "skin over" in about 10-15 minutes at room temperature and 50% relative humidity. Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula. The Adhesive/Sealant will be tack free in about 30 minutes.

Cure time

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOW CORNING 744 Adhesive/Sealant will cure to a depth of about 2mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at lower humidity levels. Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

HANDLING PRECAUTIONS

Product Safety Data Sheets should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

USABLE LIFE AND STORAGE

When stored at or below 30°C in the original unopened containers this product has a usable life of 12 months from the date of production.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4

digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

As DOW CORNING 744

Adhesive/Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

In pails a skin may form on the surface. This should be removed before placing in dispensing equipment.

PACKAGING INFORMATION

This product is available in standard industrial container sizes. For details please refer to your Dow Corning sales office.

LIMITATIONS

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

HEALTH AND ENVIRONMENTAL INFORMATION

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

Dow Corning Europe Belgium

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WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith based on Dow Corning's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's

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