

# Dow Corning® LDC 7091 Adhesive/Sealant

One part non-flowable sealant

## APPLICATIONS

- Bonding materials of differing thermal expansion rates
- Cathoy Ray Tube Wedge Bonding

## FEATURES

- ◆ Excellent adhesion to a wide range of metals and plastics
- ◆ Non-corrosive, neutral curing ( Alcohol condensation)
- ◆ Non-slump, ready to use
- ◆ Good mechanical properties-high tear strength, tensile strength
- ◆ Remains flexible at –55 °C
- ◆ suitable for up to 180 °C in unconfined conditions
- ◆ Solvent free, low shrinkage
- ◆ Available in black, gray, and white color
- ◆ Approved UL 94-HB for Gray & white color

## TYPICAL PROPERTIES

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

CTM*	ASTM*	Property	Unit	Value
<b>AS SUPPLIED</b>				
		<b>Physical form</b>		<b>Non-slump paste</b>
<b>AS CURED</b>				
0364	D2452	Extrusion rate	g/min	220
0095	D2377	Tack free time	min	30
0022	D792	Specific gravity		1.38
0099	D2240	Durometer, Shore A		30
0137A	D412, D638	Tensile strength	psi	240
0137B	D412, D638	Elongation	%	500
0159A	D624	Tear strength	ppi	60
		180 Deg. Peel strength	ppi	70
0114	D149	Dielectric strength	KV/mm	22
0249	D257	Volume resistivity	Ohm-cm	1.0 X 10 <sup>14</sup>

Properties measured after curing for 7 days at 25 °C and 50% relative

\* CTM : Corporate Test Method, copies of CTM's are available on request.  
ASTM : American Society for Testing and Materials.

## DESCRIPTION

LDC 7091 Adhesive/Sealant is a one component, ready to use, non-corrosive, moisture curing product. It gives excellent unprimed adhesion to commonly used materials including enameled and painted steel, aluminum, ceramic and glass as well as to engineering plastics. Curing mechanism of LDC 7091 Adhesive/Sealant is alcohol condensation with moisture in the air

## 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 IPA, acetone or methyl ethyl ketone.

### How to apply

Apply a bead of LDC 7091 to one surface, then cover with the other substrate to be bonded. The freshly applied material may be tooled for a period of up to 10 minutes.

## **Cure**

Typically, bonded components may be handled for packaging or storage after 45 minutes at room temperature, but this will depend upon respective weight and configuration of the unit, and should be determined by the user. A cure rate of 2mm depth in 24 hours may be expected 23°C and 50% relative humidity.

## **HANDLING PRECAUTIONS**

When using solvents for substrate cleaning, avoid heat, sparks and open flames. Always provide adequate ventilation. Obtain and follow handling recommendations from the solvent supplier.

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

## **USABLE LIFE AND STORAGE**

When stored in dry conditions below 25°C in the original unopened containers, LDC 7091 may be used for 6 months from the date of shipment.

## **PACKAGING**

LDC 7091 is available in 300ml cartridges for black, gray, white color, 100ml tubes available with both white and gray.

## **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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

## **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. Dow Corning's sole warranty is that the product will meet the Dow Corning 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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

