

## Nano 470 – IC80 High Viscosity Glass to Glass & Glass to Metal Adhesive Technical Data Sheet

J & S Adhesives Nano 470 IC80, High Viscosity Adhesive is specifically designed for bonding Glass to Glass as well as Glass to Metal. It is a one component product which is perfectly suited for:

- bonding glass onto glass to manufacture decorative panels.
  - Bonding glass to glass and/or metal where strength is the primary concern in the manufacturing of glass furniture items, tables, display cabinets, shelving etc
  - Bonding of ornamental products e.g. trophy manufacturing and other arts/crafts products.
- The adhesive cures in seconds when exposed to UV or Visible White light, e.g. fluorescent light.

### Features & Benefits

- **Optically clear bond line**
- **Fast Cure**
- **Can cure with UV**
- **Can cure with Visible Light**
- **Excellent Adhesion to Glass**
- **Excellent adhesion to Metal**

### Technical Data

#### Liquid Properties

<b>Base:</b>	Urethane Acrylate	
<b>Appearance:</b>	Translucent	
<b>Density:</b>	1.05 g/cm <sup>3</sup>	GB/T13354-1992 Test Standard
<b>Shelf Life:</b>	12 months, unopened	
<b>Viscosity (mPa.s):</b>	1000-3000	GB/T2794-1995 Test Standard
	(Brookfield @ 25°C, spindle 4)	

**Curing Performance** - Cured by exposure to UV light, light strength is of 100mW/cm

<b>Tack free time (s):</b>	3
<b>Curing depth (mm@30s):</b>	3

**Cured Performance** - (Cured@ 50mW/cm<sup>2</sup> for 30s)

<b>Hardness (Shore D):</b>	65	GB/T2411-1980 Test Standard
<b>Tensile strength (MPa):</b>	20	
<b>Water absorption</b>	1.7	
%, 24h@25°C		
<b>Work temp Range °C</b>	-50 to 150	

#### Electric Properties

<b>Dielectric constant (1MHz):</b>	4.9	GB/T1693-2007 Test Standard
<b>Dielectric loss (1MHz):</b>	0.03	GB/T1693-2007 Test Standard
<b>Dielectric strength (KV/mm):</b>	27	
<b>Volume resistivity (Ω.cm):</b>	3.8 x 10 <sup>15</sup>	GB1410-1989 Test Standard
<b>Surface resistivity (Ω.cm):</b>	1.7 x 10 <sup>15</sup>	GB1410-1989 Test Standard



### Instructions for Use

The Surface to be bonded should be clean and dry;  
Exposed white light and UV light measured @ 365nm,  
make sure the material to be bonded is light transmittable.



### Storage & Shelf Life

Store upright in original, unopened containers in a cool, dry and well-ventilated place  
at temperatures between 5 and 28°C.

Protect from light and moisture.

Keep away from children.

### Health & Safety

Users should familiarise themselves with the safety data sheet (MSDS) before using or  
handling this product.

In case of contact with skin, rinse with soapy water immediately.

In case of contact with eyes, rinse with plenty of clean water immediately and seek  
medical assistance and/or attend hospital for an examination.

For further information, please refer to MSDS.

### Regulatory

Every precaution has been taken in the design of this adhesive to ensure it safe for the  
consumer.

