

Storing Adhesives in a Factory or Warehouse



INDASOL
Industrial Adhesive Solutions Ltd

Avanti
TAPES LIMITED

PCDSALES
Production Consumables Direct

Adhesive storage requirements vary by chemistry, so it helps to group practices by type as well as general warehouse principles.

General Best Practices (All Adhesives)

- Store in original, labelled containers with intact Safety Data Sheets (SDS) accessible nearby
- Keep storage areas cool, dry, and away from direct sunlight - most adhesives have a recommended temperature range (often 15-25°C / 60-77°F)
- Use first-in, first-out (FIFO) stock rotation to avoid products exceeding shelf life
- Keep lids and containers sealed when not in use to prevent skin-forming, curing, or contamination
- Ensure good ventilation throughout storage areas
- Train staff on SDS handling instructions and provide appropriate PPE (gloves, eye protection)
- Keep a spill kit suited to the adhesive types on site



Solvent-Based Adhesives

- Store in a dedicated flammable liquids cabinet or fire-rated storage room
- Keep away from ignition sources, sparks and open flames
- Ensure explosion-proof electrical fittings in storage zones if volumes are significant
- Bond to local fire code limits on quantities stored per area
- Ground/bond containers during transfer to prevent static discharge

NEXT DAY DELIVERY AVAILABLE

For further information, samples and a demonstration, please contact:

0121 556 9900 **technical@indasol.co.uk**

For our Ireland sales manager please contact us on 07795 151814

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Water-Based Adhesives

- Protect from freezing — many water-based adhesives (e.g. PVA, latex) are damaged by freeze-thaw cycles
- Avoid extreme heat, which can cause premature drying or skin formation
- Keep containers tightly closed to prevent evaporation and skin/film buildup
- Store off the ground on pallets to avoid moisture damage to packaging



Hot Melt Adhesives



- Store in a dry area at room temperature; avoid excessive heat that can cause blocking (pellets/blocks fusing together)
- Keep away from dust and contaminants, since hot melts are often melted and applied directly
- Store off the floor and away from moisture, especially for moisture-cure hot melts, which will begin curing if exposed to humidity
- Keep packaging sealed until use to prevent premature moisture exposure (for reactive/moisture-cure types)

Segregation & Layout

- Separate flammable (solvent-based) adhesives from oxidizers and heat sources
- Keep incompatible chemical classes apart per SDS guidance
- Use clear signage and zoning so staff can quickly identify adhesive types and hazards



HOT SURFACE



HIGH TEMPERATURE



HOT STEAM



FLAMMABLE MATERIAL
HEAT SOURCE



GENERAL HEAT HAZARD

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2-Part Structural Adhesives

It is very well documented, regardless of manufacturer, that elevated temperature storage negatively affects the shelf life of reactive 2-part methacrylate-based products.

All the advanced chemistry that is used within our range is there to give us a functional advantage and set our products above the competition in the marketplace.

The resulting technology that goes into making such a reactive 2-part methacrylate stable is very complex and designed very carefully to maintain stability and not inhibit cure speed.

The table below shows the accelerated ageing caused by elevated thermal exposure. In the experiment a standard 400ml cartridge was subject to various elevated temperatures and assessed for stability. The same batch used in the trial was also stored for 12 months at 12°C and remained perfectly usable at the end of the 12-month cycle.



Temperature	Resulting Shelf Life
82°C	6 Hours
45°C	120 Hours (5 days)
35°C	480 Hours (20 days)
28°C	1080 Hours (45 days)

As you can see the cure becomes less severe the lower the temperature. Many of our export customers have always used refrigerated storage due to their higher mean temperature during the summer months.

Although we may not be at the levels yet enjoyed by our export partners, our UK temperature is increasing and should be considered in the choice of storage condition.

The optimum storage condition to preserve the product's shelf life is between 6 and 12°C. You can store at a higher temperature than this, but it will reduce the overall stability of the material.

The above information is given in good faith and for guidance only.

The user shall be responsible for determining that the performance of the product is sufficient for the application. The quoted values are based on averages and should not be taken as maximum or minimum values for specific purposes.

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