

## Clear One Component CPU Adhesive , Solvent Based Bonding Agent for CPU

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Thinkbond
- Model Number: Thinkbond 42
- Minimum Order Quantity: None
- Price: 0-99usd
- Packaging Details: 20L/200L
- Delivery Time: 15-20 working days
- Payment Terms: T/T
- Supply Ability: 20T/month



### Product Specification

- Application: Rubber Bonding
- Classification: Chemical
- Form: Liquid
- Temperature Resistance: High
- Color: Clear To Light Yellow
- Highlight: **One Component CPU Adhesive Liquid,  
Solvent Based CPU Bonding Agent,  
One Component Bonding Agent for CPU**

## Product Description

### Clear One-Component Solvent-Based Bonding Agent for CPU

#### Product Description:

Thinkbond 42 is a Clear One-Component Solvent-Based Bonding Agent for Castable

Polyurethane Elastomers and Thermoplastic Polyurethane Elastomers (PU's And TPU's). Thinkbond 42 is a heavy metals free product.

#### BENEFITS:

Thinkbond 42 is a one coat bonding system for PU's and TPU'S to all metals during the curing process.

Thinkbond 42 will also bond polyurethane elastomers to polyamides and other engineering thermoplastics, such as Hytrel® , polyester, PES, PPS and PPO, at 80°C or above.

Thinkbond 42 has excellent environmental resistance to hot and cold water, fluids.

#### TYPICAL PHYSICAL PROPERTIES:

Appearance	Clear to light Yellow liquid
Non-volatile solids (1h @ 105°C)	21-25%
Specific gravity at 25°C	0.88-0.94 g/cm3
Viscosity Brookfield at 25°C	270 cps - #2 spindle @ 30 rpm.
Viscosity Ford Cup # 4 at 25°C	80 s
Diluents	MEK/ PMA
Bonding Temperature Range	80 to 150°C
Shelf life	1 year (closed can below 25°C).

#### CHEMICAL COMPOSITION:

Resins and catalysts stabilized in ketone solvents.

#### METAL SURFACE PREPARATION:

Prepare the metal surface properly by removing completely oil, grease and dirt.

Blasting the surface with grit blasting steel so that the surface roughness is greater than 15 µm.

For aluminum surfaces we recommend the use of aluminum oxide as abrasive.

Clean again the substrate to remove dust from blasting residues.

If specified, the metal part can be phosphatized, galvanized, chromate conversion treated or KTL, before applying adhesive.

#### APPLYING Thinkbond:

**Agitation:** We recommend stir Thinkbond 42 before the application to avoid settle down.

**Brushing:** Application by brushing is normally undertaken without further dilution, but for coating large areas, dilution with MEK (or the diluent blend shown below) improves flow and speed of application.

**Spraying:** We recommend an HVLP gun using 1.5 Bar air-pressure and a nozzle size of 1 - 1.5mm. For this application we recommend diluting between 50 and 100% v/v.

**Roller coating:** Dilute to 35 - 45 seconds on a DIN 4 or Ford 4 cup at 25 C for most roller

**Application processes.** Dilution with a high boiling solvent like MPA may be necessary to achieve the best finish and to reduce the skinning of the bonding agent in the applicator.

**Drying:** Dry the film between 10 and 30 minutes at room temperature. If it is necessary to reduce drying time, we recommend to use forced air for 5 minutes at 100°C maximum. Do not use in this stage temperatures above 100°C to avoid adhesive pre-cure.

After this process, follow to cure.

Thickness of application layer: The film obtained by applying Thinkbond 42 is colorless.

The layer thickness must be between 15 and 25 µm.

For severe environments or dynamic fatigue applications, use  $\geq 25$  microns. Under these conditions it is possible to achieve bonds with no edge-failure after 400 hour salt-spray tests Parts with Thinkbond 42 already applied can be stored for 30 days prior to cure.

#### STORAGE:

Keep container tightly closed during storage and always keep away from heat sources. Store in an environment below 10°C increases the shelf life of the adhesive.







## Warehousing and logistics

It has nearly 5,000 square meters of cargo storage area. Eight employees work full-time in warehousing.







## Technical support

Making adjustment in the field



Shanghai Lorechem has a professional technical service team, whose members are specialized in polymer materials engineering. They have a wealth of field testing.

Testing in the field



Shanghai LoreChem Co., Ltd. was established in 2008. It is a high-tech enterprise which is dedicated to serve releasing products which involve semi-permanent release agent, anti-sticking, surface lubrication and thermal reactive adhesive. Shanghai LoreChem has been improving product quality for 15 years. The releasing products are mainly applied in rubber, polyurethane and composite industry. The brand of Lubekote for release agent and Thinkbond for adhesive have been registered in China. Both of them are well known in the industry.

Shanghai LoreChem 's business is all over the domestic and foreign high-end production enterprises by providing professional technical solutions and services. The company's long-term goal is to become one of the best suppliers of release agent in Asia.

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