

Thinkbond 45 TPU/CPU Adhesive High-Strength Hot Vulcanization Bonding Agent

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Thinkbond
- Certification: ISO, Rohs
- Model Number: xxxxx
- Minimum Order Quantity: None
- Price: 1-99 usd
- Packaging Details: 25L, 200L
- Delivery Time: 5-15 working days
- Payment Terms: T/T
- Supply Ability: 20T/week



Product Specification

- Classification: Chemical
- Name: Bonding Agent/ Adhesive
- Brand Name: Thinkbond
- Odor: Solvent
- Place Of Origin: China
- Application: Bonging For TPU/CPU
- Diluent: Solvent

for more products please visit us on shlorechem.com

Product Description

Thinkbond 45 TPU/CPU Adhesive High-Strength Hot Vulcanization Bonding Agent

Product introduction:

Thinkbond 45 series adhesive is a highly reactive thermosetting bonding agent engineered for superior adhesion between TPU/CPU and diverse substrates. Optimized for demanding industrial applications requiring extreme durability and dynamic load resistance.

Properties:

State : liquid
Shelf life: 12 months
Cure System: Heat-activated vulcanization
Compliance: RoHS, REACH compliant

Advantages:

Easy to operate and can be applied by brush coating, pneumatic spraying, electrostatic spraying, dip coating, roller coating, etc.

It has high reactivity and can be used for bonding various plastics and cpus, as well as plastics and TPU.

The bonding strength is high, and the static bonding can reach more than 55N/mm².

High load capacity and high dynamic range, suitable for application to forklift wheels, load wheels, etc.

Resistant to hydrolysis, salt spray and high temperature;

Manufacture, high cost performance

Product Variants:

Product Code	Color	Key Characteristics
Thinbond 45T	Water-clear to Amber	Standard high-reactivity formulation
Thinbond 45A	Blue	Enhanced visual application control

Application:

Industrial Tires & Wheels: Forklift tires, load-bearing wheels

Automotive: Vibration-damping mounts, seals

Consumer Goods: Sports equipment, footwear soles

General Manufacturing: Rubber-to-plastic/ metal bonding

Applying Thinkbond:

Agitation: We recommend stir Thinkbond 942 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 942 is colorless.

The layer thickness must be between 15 and 25 µm.

For severe environments or dynamic fatigue applications, use ≥ 25 microns. Under these conditions it is possible to achieve bonds with no edge-failure after 400 hour salt-spray tests

Parts with Thinkbond 942 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.

More Thinkbond adhesive:


Application	Suitable code	Dispersing medium	Advantages
Bonding agent for CPU	Thinkbond 42	Solvent based	Universal bonding agent for CPU; Easy to apply; High bonding activity, Less harm to health.
Bonding agent for CPU	Thinkbond 46	Solvent based	Excellent long-term pre-curing properties; Good resistance of cold and hot water; Cost-effective.

Bonding agent for fluorine rubber & silicone rubber	Thinkbond 4S	Solvent based	Environmentally friendly; Diluted with absolute ethanol; Universal applying and can be used for various skeletons.
Bonding agent for fluorine rubber & silicone rubber	Thinkbond 3H	Solvent based	Environmentally friendly; Diluted with absolute ethanol; Universal applying for various vulcanization systems fluorine rubber.







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.



Shanghai Lorechem Company Limited



15901891635



export@lorechem.com



shlorechem.com

Floor 2-3, Building 20, Hongxing International Plaza, Lane 1818, Lianhang Road, Pujiang, Shanghai