



THIXON™ 526

Description THIXON™ 526 is a general purpose cover coat used for bonding rubber compounds to metals and other rigid substrates during vulcanization. In rubber to metal bonding applications, THIXON™ 526 adhesive requires a MEGUM™ or THIXON™ primer. Other rigid substrates such as thermoplastics and other metal alloys may not require a primer. However, environmental resistances of the final application need to be considered.

THIXON™ 526 adhesive consists of reactive polymers and pigments in xylene. It is formulated without reportable levels of lead or other heavy metals.

MEGUM™ or THIXON™ primers adhere to hot and cold rolled steel, stainless steel, aluminum, brass and thermoplastics such as polyamides and polyesters.

Benefits & Features THIXON™ 526 has well-balanced performance based on standard industry test specifications (ASTM D429-WDK2000). THIXON™ 526 has good boiling water, heat and pre-bake resistance. THIXON™ 526 enables global standardization and consolidation. Based on the chemistry, THIXON™ 526 displays low mold fouling properties.

Uncured Properties	Nominal Value	Unit	Test Method
Color	Black		
Solids Content			
-- ¹	15	%	
--	24 to 28	%	ASTM D2369
Density	0.995	g/cm ³	ASTM D1475
Dry Film Density	1.7	g/cm ³	
VOC Content	6.20	lb/gal	
Flash Point ²	25.0	°C	ASTM D3276
Viscosity ³ (20°C, Brookfield LV)	0.12 to 0.30	Pa·s	ASTM D1084
Viscosity (25°C)	16 to 31	sec	Zahn Cup 3
Theoretical Coverage ⁴	10.2	m ² /l	
Recommended Film Thickness	20	µm	
Recommended Film Thickness Range	10 to 25	µm	
Shelf Life ⁵ (25°C)	24	month	

Elastomer

NR,CR,SBR,IIR,AND NBR compounds

Substrate

CRS, SS, Cu, Brass, Zn and Mg Alloys with a THIXON™, MEGUM™ or ROBOND™ Primer

Surface Prep

Review Dow 's rubber-to-substrate bonding agent application guide or contact your account manager.

Mix Instructions

Diluents - Use an aromatic solvent, such as toluene or xylene as the diluent.

First, thoroughly mix THIXON™ 526 with a shear blade or propeller type agitator. If diluting, slowly add the diluent to the adhesive while mixing constantly. Continue to mix THIXON™ 526 while spraying or dipping to keep the dispersed solids from settling to the bottom. This will assure that a homogenous mixture of the adhesive is applied.

- 1 part adhesive: 0 part diluent- estimate 26.0% theoretical solids
- 1 part adhesive: 0.1 part diluent - estimate 23.6% theoretical solids
- 1 part adhesive: 0.3 part diluent- estimate 20.0% theoretical solids
- 1 part adhesive: 0.5 part diluent - estimate 17.3% theoretical solids
- 1 part adhesive: 1.0 part diluent - estimate 13.0% theoretical solids

Application Technique

Brushing: use undiluted. To obtain the required film thickness, brush on a heavy wet film without brushing excessively.

Dipping: use undiluted or dilute 3-4 parts product with 1 part diluent.

Spraying: for spray applications, dilute two parts product with one part diluent to obtain a viscosity of 20-30 sec. #2 Zahn cup or 210 cps.

Drying the Film

The drying time is approximately 30 minutes at 16°-27°C (60°-80°F). At lower temperatures, dry longer. The drying time can be shortened by force drying five minutes at 82°C (180°F). Do not dry at temperatures above 121°C (250°F).

Molding and Curing

Can be used with all common molding and curing methods. Cure temperatures between 130°C and 190°C (265°F and 375°F) are recommended.

Pre-Bake Resistance

Outstanding pre-bake resistance. Depending on the rubber formulation, coated inserts can be pre-baked for up to 5-10 minutes at 160°C (320°F) without adversely affecting bond quality.

Dry Film Stability

Excellent dry film stability. Inserts coated with product can be stored for several months in clean, dry and contaminant free environment plus protected from natural and fluorescent light.

Clean-up

Equipment clean up should be done using recommended dilution solvents.

Packaging/Sizes Available

Drums, pails and cans.

Storage & Stability

The shelf life of this material is assured for 24 months (from the date of manufacture) at temperatures below 78°F in an unopened container.

Toxicity and Safety Information

Read the Safety Data Sheet before using this material. Toxicity and safety information is included in the SDS.

Food Contact Applications

Dow Automotive products are not approved for direct or indirect food contact or drinking water applications. If your applications include food contact or drinking water requirements, please contact your Dow representative. For more information on the regulatory status of this product, please refer to the SDS for this product.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ By volume

² Seta Closed Cup

³ Spindle #2, @ 30 RPM

⁴ Applied at a dry film thickness of 15 microns/0.6 mils

⁵ Unopened

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