



# INSTANT ADHESIVES

# Fast, lightweight, multi-material bonding. **For more design options.**

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## PROBLEM

Without instant adhesives:  
Fastening options that  
add complexity, slow  
production or limit  
materials.



## SOLUTION

With instant adhesives:  
Strong, fast lightweight  
bonding of a wide range  
of materials.

# Bonds more material. **Faster.**

Instant adhesives are ideal for bonding small to medium-size parts with close fitting, smooth surfaces. They provide fast cure speeds and excellent bond strengths to a wide variety of substrates. LOCTITE® instant adhesives are available in a range of formulations for anything from general purpose repairs to specialty high-performance assembly applications.



## How to choose an instant adhesive.

### GENERAL PURPOSE vs. SPECIALTY ADHESIVES

LOCTITE® has an instant adhesive formulated for almost any application.

**GENERAL PURPOSE** – Strong and versatile enough for the vast majority of applications, including acidic surfaces such as chromated or galvanised metals and porous substrates such as wood, paper, leather, cork and fabric.

**TOUGHENED** – Elastomer modified adhesives for applications subjected to high shock, impact and humidity.

**FLEXIBLE** – For bonding materials subjected to bending or distortion, as well as flexible components, and acidic surfaces.

**HIGH TEMPERATURE** – For operating temperatures up to 120°C.

**LOW ODOUR/LOW BLOOM** – Low volatile adhesives for applications where cosmetic appearance, minimal frosting and low odour is required.

**HIGH GAP FILL** – For applications with gaps up to 0.15 mm. 2-K technologies provide fast cure independent of gaps up to 5mm.



#### VISCOSITY

Available in viscosities from thin liquids to thixotropic, no-run gels.



#### FIXTURE SPEED

Available in various fixture speeds to accommodate applications that may require instant set times to those that may require minor adjustment time.



#### STRENGTH

Available in shear resistant, general purpose formulations to toughened, high impact, high peel resistant formulations to meet the specific strength requirements of your application.

## Find the right product for your application



### General Purpose

LOCTITE® 401™  
LOCTITE® 406™  
LOCTITE® 454™

### High Gap Fill

LOCTITE® 3090™

### General Maintenance

LOCTITE® 407™  
LOCTITE® 416™  
LOCTITE® 424™  
LOCTITE® 4471™

### Toughened

LOCTITE® 410™  
LOCTITE® 435™  
LOCTITE® 438™  
LOCTITE® 480™

### Low Odour / Low Bloom

LOCTITE® 403™  
LOCTITE® 408™  
LOCTITE® 460™



## General Purpose

### INSTANT ADHESIVES



**401™**  
Low Viscosity



Viscosity: 110 mPa.s



Fixture Speed: 5 seconds  
Full Cure: 24 hours



Strength: 20 N/mm²

Colour: Clear  
Temperature Resistance: 120°C



**406™**  
Wicking Grade



Viscosity: 20 mPa.s



Fixture Speed: 20-45 seconds  
Full Cure: 24 hours



Strength: 15.5 N/mm²

Colour: Clear  
Temperature Resistance: 120°C



**454™**  
No-Run Gel



Viscosity: Gel



Fixture Speed: 30-60 seconds  
Full Cure: 24 hours



Strength: 20.9 N/mm²

Colour: Clear  
Temperature Resistance: 120°C

## High Gap Fill

### INSTANT ADHESIVES



**3090™**  
Two-component Gel



Viscosity: Gel



Fixture Speed: 90-180 seconds  
Full Cure: 24 hours



Strength: 21 N/mm²

Colour: Clear to Slightly Cloudy  
Temperature Resistance: 80°C



## General Maintenance

### INSTANT ADHESIVES



**407™**

General Purpose



Viscosity: 40 mPa.s



Fixture Speed: 10-30 seconds  
Full Cure: 24 hours



Strength: 21 N/mm²

Colour: Transparent, colourless to straw  
Temperature Resistance: 100°C



**416™**

High Viscosity



Viscosity: 1325 mPa.s



Fixture Speed: 20-50 seconds  
Full Cure: 24 hours



Strength: 22 N/mm²

Colour: Clear  
Temperature Resistance: 80°C



**424™**

Rubber Bonding



Viscosity: 110 mPa.s



Fixture Speed: 15-30 seconds  
Full Cure: 24 hours



Strength: 22 N/mm²

Colour: Transparent, colourless to straw  
Temperature Resistance: 80°C



## Toughened

### INSTANT ADHESIVES



**410™**

Black, Gap Filling



Viscosity: 3350 mPa.s



Fixture Speed: 60-120 seconds  
Full Cure: 24 hours



Strength: 22 N/mm²

Colour: Black  
Temperature Resistance: 80°C



**435™**

Clear, Surface Insensitive



Viscosity: 175 mPa.s



Fixture Speed: 30-45 seconds  
Full Cure: 24 hours



Strength: 19 N/mm²

Colour: Clear  
Temperature Resistance: 100°C



**438™**

Black version of 435



Viscosity: 175 mPa.s



Fixture Speed: 30-45 seconds  
Full Cure: 24 hours



Strength: 19 N/mm²

Colour: Black  
Temperature Resistance: 100°C



**480™**

Black, High Strength



Viscosity: 150 mPa.s



Fixture Speed: 60-120 seconds  
Full Cure: 24 hours



Strength: 26 N/mm²

Colour: Black  
Temperature Resistance: 82°C

## Low Odour / Low Bloom

### INSTANT ADHESIVES



**403™**

Gap Filling



Viscosity: 1325 mPa.s



Fixture Speed: 20-45 seconds  
Full Cure: 24 hours



Strength: 20.3 N/mm²

Colour: Transparent, Colourless to Pale Yellow  
Temperature Resistance: 100°C



**408™**

Wicking Grade



Viscosity: 7 mPa.s



Fixture Speed: 20-30 seconds  
Full Cure: 24 hours



Strength: 20.8 N/mm²

Colour: Transparent, Colourless to Straw  
Temperature Resistance: 100°C



**460™**

Low Viscosity



Viscosity: 40 mPa.s

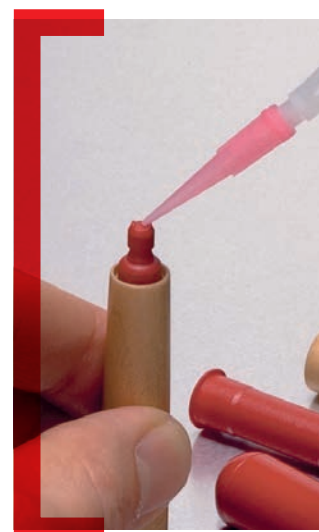


Fixture Speed: 10-30 seconds  
Full Cure: 24 hours



Strength: 21 N/mm²

Colour: Transparent, Colourless to straw  
Temperature Resistance: 100°C



INSTANT ADHESIVES								
Product	Item Number	Pack Size	Colour	Viscosity [mPa.s]	Max Gap Fill	Fixture Speed, Steel [sec]	Shear Stength, GBMS	Temperature Range
GENERAL PURPOSE								
401™	547691	3 g	Clear	110	0.127 mm	5	20 N/mm² 2900 psi	-40°C to 120°C
	265607	25 ml						
	265618	100 ml						
	265620	500 ml						
406™	265606	25 ml	Clear	20	0.102 mm	20 - 45	15.5 N/mm² 2250 psi	-40°C to 120°C
	265619	100 ml						
	265621	500 ml						
454™	233998	3 g	Clear	Gel	0.254 mm	30 - 60	20.9 N/mm² 3030 psi	-40°C to 120°C
	466862	20 g						
	234004	200 g						
GENERAL MAINTENANCE								
407™	233732	100 g	Transparent, colourless to straw	40	0.102 mm	10 - 30	21 N/mm² 3045 psi	-40°C to 100°C
416™	461520	25 ml	Clear	1325	0.203 mm	20 - 50	22 N/mm² 3190 psi	-40°C to 80°C
424™	265609	25ml	Transparent, colourless to straw	110	0.127 mm	15 - 30	22 N/mm² 3190 psi	-40°C to 80°C
4471™	158530	20 g	Clear	625	0.178 mm	10 - 20	22 N/mm² 3190 psi	-40°C to 80°C
TOUGHENED								
410™	135444	20 g	Black	3350	0.203 mm	60 - 120	22 N/mm² 3190 psi	-40°C to 80°C
435™	914156	25 g	Clear	175	0.152 mm	30 - 45	19 N/mm² 2700 psi	-40°C to 100°C
	840071	500 ml						
438™	914155	25 ml	Black	175	0.152 mm	30 - 45	19 N/mm² 2700 psi	-40°C to 100°C
480™	1831562	20 g	Black	150	0.152 mm	60 - 120	26 N/mm² 3800 psi	-40°C to 82°C
	135253	500 g						
LOW ODOUR / LOW BLOOM								
403™	1919337	20 g	Transparent, colourless to pale yellow	1325	0.203 mm	20 - 45	20.3 N/mm² 2940 psi	-40°C to 100°C
408™	473128	25 ml	Transparent, colourless to straw	7	0.051 mm	20 - 30	20.8 N/mm² 3020 psi	-40°C to 100°C
460™	473121	25 ml	Transparent, colourless to straw	40	0.102 mm	10 - 30	21 N/mm² 3060 psi	-40°C to 100°C
	142600	500 g						
HIGH GAP FILL								
3090™	1379599	10 g	Clear to slightly cloudy	Gel	5.0 mm	90 - 180	21 N/mm² 3045 psi	-40°C to 80°C