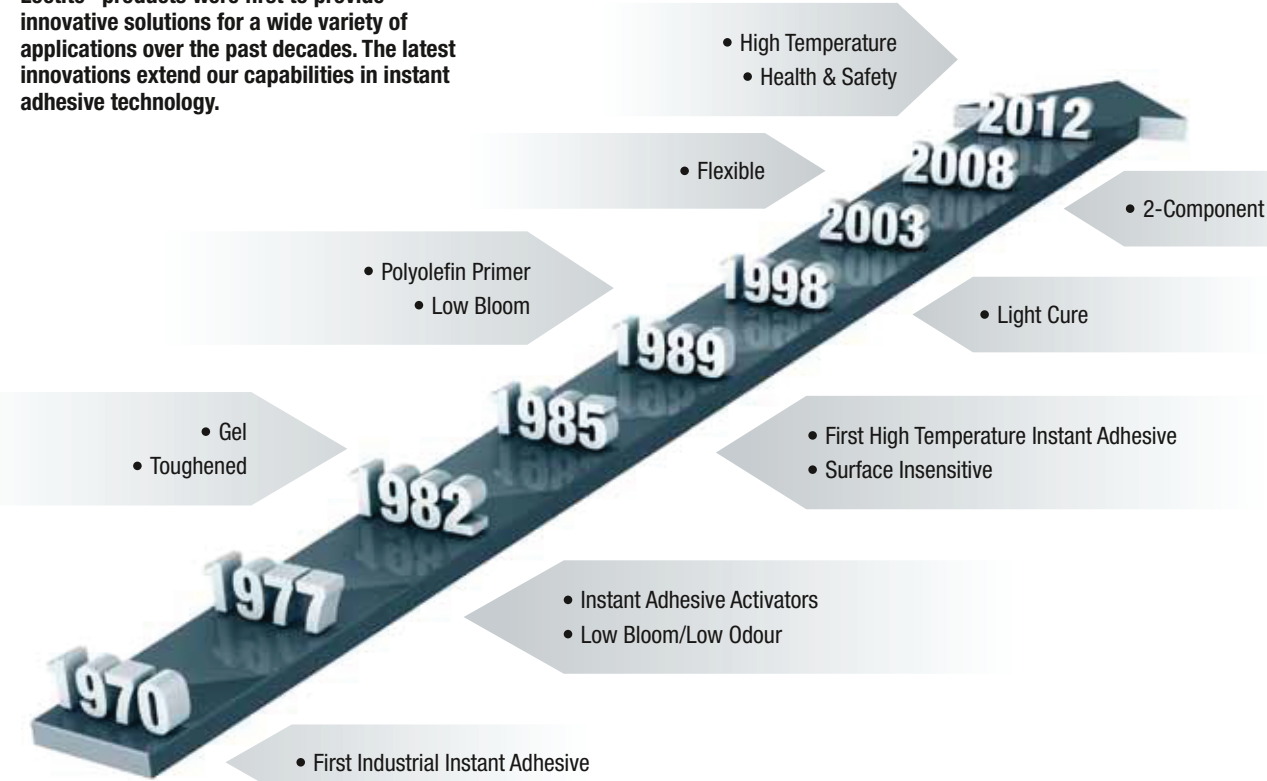


# Innovations in Loctite® Instant Adhesive Technology

Loctite® products were first to provide innovative solutions for a wide variety of applications over the past decades. The latest innovations extend our capabilities in instant adhesive technology.



## In 2012 the innovation story continues ...

**High Temperature Resistance**

Loctite® 401, 406 and 454 with improved temperature resistance:

- Resist temperatures up to 120°C
- High-level core performance characteristics
- Opportunities for a wider range of applications

**Health & Safety**

Loctite® 403, 408 and 460 with significant Health & Safety benefits:

- Low odour = Improved worker safety
- Classified as non-irritant
- No Health & Safety related risk phrases in the MSDS

## Henkel – Your Partner Worldwide

For more information, please visit [www.loctite.co.uk/instantadhesives](http://www.loctite.co.uk/instantadhesives)

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The data contained herein are intended as reference only. Please contact Henkel Technical Support Group for assistance and recommendation on specifications for these products.  
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## Loctite® Instant Adhesives

Discover Our Entire Portfolio Including the Latest Innovations



# Latest Innovations in Instant Adhesives

Discover Our New Improved Products



## Products built to take the heat

Loctite® product	401 Universal	406 Plastic & Rubber	454 Universal
<b>Properties</b>	<ul style="list-style-type: none"> <li>Colourless</li> <li>Low viscosity</li> </ul>	<ul style="list-style-type: none"> <li>Colourless</li> <li>Low viscosity</li> </ul>	<ul style="list-style-type: none"> <li>Colourless</li> <li>High viscosity gel</li> </ul>
<b>Product highlights</b>	<ul style="list-style-type: none"> <li>High temperature resistance of up to 120°C</li> <li>For bonding metal, plastic and rubber as well as porous substrates such as wood, paper, leather, cork and fabric</li> <li>Also for acidic surfaces such as chromated or galvanised parts</li> <li>Food approval: P1 NSF Reg.No.: 123011</li> </ul>	<ul style="list-style-type: none"> <li>High temperature resistance of up to 120°C</li> <li>For rapid bonding of plastics, rubbers, including EPDM, and elastomers</li> <li>Well suited for polyolefins in combination with Loctite® Polyolefin Primer 770 or 7239</li> </ul>	<ul style="list-style-type: none"> <li>High temperature resistance of up to 120°C</li> <li>General purpose gel for non-drip vertical and overhead use</li> <li>For bonding metal, plastic and rubber as well as porous substrates such as wood, paper, leather, cork and fabric</li> <li>For acidic surfaces such as chromated or galvanised parts</li> <li>Food approval: P1 NSF Reg.No.: 123009</li> </ul>



## New Improved Products leading in Health & Safety



Loctite® product	403 Low Odour, Low Bloom	408 Low Odour, Low Bloom	460 Low Odour, Low Bloom
<b>Properties</b>	<ul style="list-style-type: none"> <li>Colourless</li> <li>High viscosity</li> </ul>	<ul style="list-style-type: none"> <li>Colourless</li> <li>Very low viscosity</li> </ul>	<ul style="list-style-type: none"> <li>Colourless</li> <li>Low viscosity</li> </ul>
<b>Product highlights</b>	<ul style="list-style-type: none"> <li>Products for improved worker safety</li> <li>Classified as non-irritant</li> <li>Improved product performance</li> <li>Low odour, low bloom: for applications where cosmetic aspects are important</li> <li>For porous substrates such as wood, paper, leather, cork and fabric</li> </ul>		

# Product Selector Chart

Choose the Right Solution

Product category	Loctite® product	Viscosity in mPa-s	Colour	Substrates				Service temperature range	Pack sizes
				Plastics/polyolefins	Rubbers	Metals	Porous and/or acidic surfaces		
Universal	401 NEW	100	Colourless	• / •*	•	•	••	-40 to +120°C	3g, 20g, 50g, 500g
	431	1,000	Colourless	• / •*	•	•	••	-40 to +80°C	20g, 500g
	454 NEW	gel	Colourless	• / •*	•	•	••	-40 to +120°C	10g, 20g, 300g
Plastic & Rubber	406 NEW	20	Colourless	•• / ••*	••	•		-40 to +120°C	20g, 50g, 500g, 2kg
	4062	2	Colourless	•• / ••*	••	•		-40 to +80°C	20g, 50g, 500g
Metal	496	125	Colourless	• / •*	•	••		-40 to +80°C	20g, 50g, 100g, 500g
	403 NEW	1,200	Colourless	• / •*	•	•	••	-40 to +80°C	50g, 500g
	408 NEW	5	Colourless	• / •*	•	•	••	-40 to +80°C	20g, 500g
Low Odour, Low Bloom	460 NEW	40	Colourless	• / •*	•	•	••	-40 to +80°C	20g, 50g, 500g
	435	200	Colourless	•• / •*	••	••	••	-40 to +100°C	20g, 500g
	438	200	Black	• / •*	•	••	••	-40 to +100°C	20g
Shock & Impact Resistance	480	200	Black	• / •*	••	••		-40 to +100°C	20g, 500g
	3090	gel	Colourless	• / •*	••	•	••	-40 to +80°C	10g, 50g
	4850	400	Colourless	•• / •*	••	•	••	-40 to +80°C	20g, 500g
Gap Filling	4304 <sup>Med</sup>	20	Colourless	•• / •**	•	•		-40 to +100°C	28g
	4305 <sup>Med</sup>	900	Colourless	•• / •**	•	•		-40 to +100°C	28g, 454g
Light Cure	4061 <sup>Med</sup>	20	Colourless	•• / ••**	•	•		-40 to +80°C	20g, 454g
	4011 <sup>Med</sup>	100	Colourless	• / •**	•	•		-40 to +80°C	20g, 454g

Med = Certified according to ISO 10993 for medical device manufacturing

•• well suited for  
• suited for

\* in combination with Primer Loctite® 770 or Loctite® 7239  
\*\* in combination with Primer Loctite® 7701

# Process Solutions

Equipment for Your Application Needs

## Loctite® Dispensing Equipment for Instant Adhesives



	Volumetric Hand Pump (#1508477)	Benchtop Peristaltic Dispenser Loctite® 98548 (#769914)	Manual Hand-Held Dispense System (#1388653)	Semi-Automated Dispense System (#1388647)
<b>Dispensing Capabilities</b>	Dots	Dots, Beads	Dots & Drops, Beads	Microdots, Dots or Drops, Microbeads to medium beads
<b>Product Viscosity</b>	Low	Low	Low to medium	Low to medium
<b>Dispenser Type</b>	Volumetric	Volumetric	Pressure time	Pressure time
<b>Suck Back</b>	No	Yes	No	No
<b>Add-on features</b>	–	–	Fingerswitch	Online Monitoring, Higher-level PLC, ...
<b>Level sensor</b>	No	No	Yes	Yes
<b>Power source</b>	–	Electric	Electric & pneumatic	Electric & pneumatic

## Loctite® Surface Preparation

Loctite® 770 / 7701* Primer	Loctite® 7455 Activator	Loctite® 7458 Activator
<ul style="list-style-type: none"> <li>Polyolefin primer</li> <li>For substrates such as PE, PP, PTFE</li> <li>Provides best adhesion for instant adhesives to polyolefin and other low surface energy plastics</li> <li>For pre-application</li> </ul>	<ul style="list-style-type: none"> <li>For all substrates</li> <li>On part life &lt; 1 min.</li> <li>Fast fixturing between close fitting parts</li> <li>For post-application</li> </ul>	<ul style="list-style-type: none"> <li>For all substrates</li> <li>On part life &lt; 24 h</li> <li>Low odour</li> <li>Good aesthetic appearance</li> <li>For pre- and post-application</li> </ul>

\* For medical applications