



Wang Daeng Industrial Supplies Co.,Ltd. 116/98 Moo.3, T.Bowin, A.Sriracha Chonburi 20230 Tel: (038) 337 838-9 Mobile: (081) 564-8315

General Manufacturing Instant Adhesives Selector Guide



Design Partnership

Our experienced team of engineers provide documented design and application support.

With unsurpassed development, engineering and field support – Henkel provides the expertise to empower customers to improve quality, efficiency and innovation.

Engineering

Support

Global Capabilities

We are the global technology leader with an extensive network to support the customers' value stream.

Customer Intimacy

Through close collaboration and intimate knowledge of customer applications and processes, Henkel creates exciting solutions that enable innovation.

Innovation Leader

As the innovation leader in sealing, bonding and coating – Henkel delivers solutions to meet fast design changes and developmental challenges. LOCTITE® is the world's #1 brand of engineering adhesives & sealants. Our solutions reduce cost and increase reliability.

Achieving more with less

Our commitment to leadership in sustainability is deeply embedded in our values. With our revised Sustainability Strategy for 2030, we are building on our strong track record. At the same time, we are aiming to address one of the central future challenges: to decouple growth from resource consumption. At the heart of this strategy is therefore the simple, yet challenging, ambition: to achieve more with less. It aims to create more value for our customers, consumers, communities and the company alike, while simultaneously reducing the environmental footprint.



Reliability in every drop

LOCTITE[®] Instant Adhesives reliably bond almost any combination of materials in seconds. Now, the bond is resistant to even higher temperatures and humidity — enlarging the spectrum of applications with every drop.



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• Reli) in e	ability very d	rop	ROCTITE ADD COTTAC ADD		
	LOCTITE [®] PRODUCT	CHARACTERISTICS	PRODUCT HIGHLIGHTS	BENEFITS	SUBSTI
GENER	AL PURPOSE				
LOCTITE® RELIABILITY UP TO 120°C	401 UNIVERSAL	Clear colourLow viscosity	 High thermal performance For rapid bonding of plastics, rubbers and metal For porous substrates such as wood, paper, leather, cork and fabric For acidic surfaces such as chromated or galvanized surfaces 	 Very fast fixture speed Particularly suited for bonding a wide variety of materials, such as metals, plastics, elastomers, paper, leather, cork, fabric, wood, chromate plated parts, etc. 	 Abrasive tips to metal – Ma Stainless steel to carbon fib Glass-filled polyurethane to Firearm assembly Aluminium to rubber pads
HEAT RESISTANCE	454 UNIVERSAL	Clear colourHigh viscosity gel	 High thermal performance For use on vertical or overhead surfaces, when non-dripping is required For porous substrates such as wood, paper, leather, cork and fabric For acidic surfaces such as chromated or galvanized surfaces 	Fast cure even in challenging environments	 PVC to EPDM rubber – Appl Urethane foam rubber to parameter of the provided of the p
120°C	495 UNIVERSAL	Clear colourLow viscosity	 High thermal performance For rapid bonding of plastics, rubbers and metal 		 Braided sleeve to rubber – Synthetic rubber to ABS – L equipment housings
	406 Plastic and Rubber	Clear colourLow viscosity	 High thermal performance For rapid bonding of plastics, rubbers, including EPDM and elastomers Well suited for polyolefines in combination with LOCTITE[®] Primer 770 		
LOW OI	DOR / LOW B	LOOM			
LOCTITE® RELIABILITY UP TO 100°C	403	Clear colourHigh viscosity	 High thermal performance High moisture resistance For applications where cosmetic aspects and low bloom is required For low odor during use For porous substrates such as wood, paper, leather, cork and fabric 	 High cosmetic appearance Low odor Reduced white residue "blooming" or "frosting" Surface insensitive 	 ABS to polycarbonate – Bat Aluminium to acrylic – Cosr Polypropylene to aluminiur Identification tags / labels Clear plastic to PVC – Displace
HEAT RESISTANCE	408	Clear colourVery low viscosity		One-part room temperature cure	 Wood to ABS - Fountain period Rubber to metal - Gasketing Stainless steel to rubber - E housings SS clips to plastic - Handhe ABS to polystyrene - Small
	460	Clear colourLow viscosity			



STRATES AND APPLICATIONS

Machine tools fiber – Cutlery e to steel

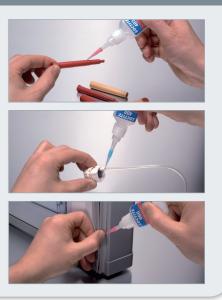
ds – Ladders Appliance consoles o painted steel

g materials eaners encing – Hoses – Legs to



Battery cases Cosmetic cases hium – s splay systems pens eting and sealing – Electronic

dheld electronics all appliances



PROCESS SOLUTIONS

LOCTITE[®] DISPENSING EQUIPMENT **▼**









	LOCTITE [®] CA VOLUMETRIC HAND PUMP	LOCTITE [®] BENCHTOP PERISTALTIC DISPENSER	LOCTITE [®] MANUAL HAND HELD DISPENSE SYSTEM	LOCTITE® SEMI-AUTOMATED DISPENSE SYSTEM	
Dispensing Capabilities	Dots	Dots, beads	Dots, drops, beads	Microdots, dots or drops, microbeads to medium beads	
Product Viscosity	Low	Low	Low to medium	Low to medium	
Dispenser Type	Volumetric	Volumetric	Pressure / time	Pressure / time	
Suck Back	No	Yes	No	Yes	
Add-On Features	None	None	Fingerswitch	Online monitoring, PLC,	
Level Sensor	No	No	Yes	Yes	
Source	None	Electric	Electric and pneumatic	Electric and pneumatic	
Suitable Pack	20 g bottle	20 g - 500 g bottle	500 g bottle	500 g bottle	
Item Number	1506477	98548	¹ See below	² See below	

¹ INCLUDES: LOCTITE[®] Integrated Controller & Reservoir (97009)

• LOCTITE[®] LV Hand Held Applicator (97130)

LOCTITE[®] Footswitch (97201)

• LOCTITE[®] Air Line Filter, Regulator Gauge o to 150 psi (985397)

² INCLUDES: • LOCTITE[®] Light Cure Dispense Valve (98009)*

• LOCTITE® Bond-A-Matic® 3000 Reservoir, o to 100 psi (982723)

• LOCTITE[®] Single Channel Automatic Controller (97152)

• LOCTITE[®] Air Line Filter, Regulator Gauge o to 150 psi (985397)

LOCTITE[®] Footswitch (97201)

* LOCTITE® VA10 Micro Diaphragm Valve (1611449) (Alternative Choice)

LOCTITE[®] SURFACE PREPARATION **▼**

LOCTITE [®] 770 PRIMER	LOCTITE [®] 7455 ACTIVATOR	LOCTITE® 768 X-NMS CLEANUP SOLVENT
 Adhesion promoter Especially for polyolefins, such as PE and PP Suitable for PTFE and thermoplastic elastomers Long on-part life Fluorescent under UV light / black light 	 Pre- and post-application Provides fast cure when post-applied Suitable for all plastics No damage to enamel coating Eliminates blooming 	 Quickly and safely dissolves cured cyanoacrylate-based adhesives Debonds parts Solvent odor
 Base: n-Heptane On-part life: 8 hours Dry time @ 20 °C: 30 seconds 	 Base: n-Heptane On-part life: ≤ 1 minute Dry time @ 20 °C: ≤ 60 seconds 	• Base: solvent

PRODUCT SELECTOR CHART

PRODUCT CATEGORY	LOCTITE® PRODUCT	SUBSTRATES				DESIGN CONSIDERATIONS			ENVIRONMENT		ASPECT			
		PLASTIC AND RUBBER	METALS	MAGNETS (FERRITE, ETC.)	POROUS AND / OR ACIDIC SURFACES	POLYOLEFINS	VISCOSITY mPa-s	FILLET CURE	VERTICAL APPLICATION	LARGER GAP	MAXIMUM TEMPERATURE °C	HUMIDITY	COLOUR	COSMETIC APPEARANCE
Universal	401 🕎	х	х	х	хх	X ³	100	X ¹			120		Clear	
	454 👲	х	х	х	хх	X ³	Gel	X1	хх	xx	120		Clear	
	495 🕎	хх	хх	х		X ³	45	X ¹			120		Clear	
Plastic and Rubber	406 🕎	ХХ	х			XX ³	20	X ¹			120		Clear	
	424	хх	х			X ³	100	X ¹			80		Clear	
Metal	415	х	хх			X ³	1200	X ¹	х	х	80		Clear	
	496	х	хх			X ³	125	X ¹			80		Clear	
Specialized	420	ХХ	хх	х		X ³	2				80		Clear	
	403 🕎	х	х		хх	X ³	1000	X ¹	х	х	100		Clear	ХХ
Low Odor / Low Bloom	408 👲	х	х		хх	X ³	5				100		Clear	ХХ
	460 🔮	х	х		хх	X ³	40	X ¹			100		Clear	ХХ
Toughened	435	хх	х	х	хх	X ³	200	X ¹			100	х	Clear	
	438	хх	х	х	хх	X ³	200	X ¹			100	х	Black	
	480	х	хх	хх		X ³	200	X ¹			100	х	Black	
	4204	х	х	х		X ³	4000	X1	х	х	120	хх	Clear	
Flexible	4850	хх	х		хх	X ³	400	X ¹			70		Clear	
	4860	хх	х		хх	X ³	4000	X ¹	х	х	70		Clear	
Light Cure	4305	х	х			X ³	900	X ²	х	XX ²	80	х	Clear	ХХ
LEGEND: ¹								For the lates approvals / s Compliance,	GENCY APPROVALS: or the latest information on agency pprovals / specifications (ISO 10993 ompliance, Military Specifications, NSF® iternational), please contact your local					

International), please contact your local Henkel customer support for assistance.

L@CTITE. BONDERITE. TECHNOMELT. TEROSON. AQUENCE.

Henkel products are designed to meet the specifications and testing standards of a variety of agencies. Because such standards change or may be modified, no warranty is given regarding such compliance. The information provided may be used as a quick reference tool to aid in design or application. For up-to-the-minute information on agency approvals, or to inquire about additional agency approvals, please contact Henkel Product Management team or local Technical Support team.

Contact us at: www.henkel.com

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