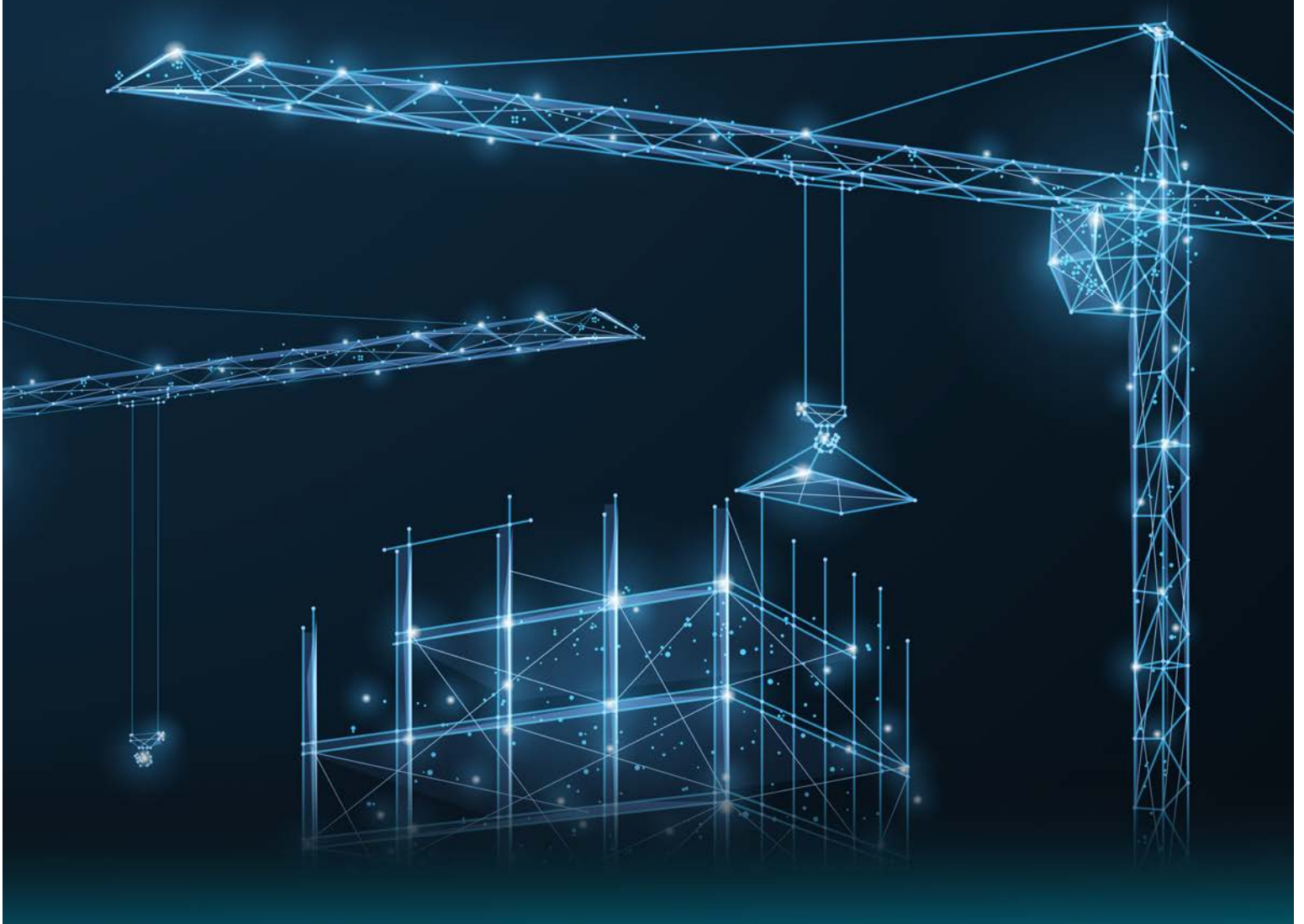


June 2022

# Building Materials --- Adhesion Guide



**mactac**<sup>®</sup>   
A LINTEC COMPANY

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SOLUTIONS THAT STICK™



**Mactac.Solutions that stick.**



Mactac® is a leading manufacturer of pressure-sensitive adhesive products. Mactac manufacturing facilities serve markets in the US, Mexico and Canada. Mactac's products are used in a wide range of industries including, mounting & bonding, engineering assembly, building & construction, automotive, graphics design, digital imaging, printing products, and labeling.

**Performance Adhesives Group**



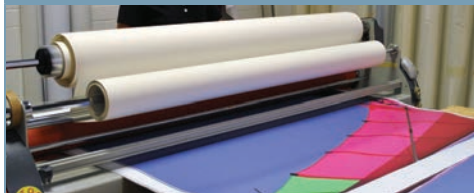
**Medical Products Include:**

- Mactac Silk® Rubber Adhesives
- Acrysure® Solvent-free Acrylics
- Visoderm® Wound Care Films
- RESPONSE® Diagnostic

**Roll Label Products Include:**

- MACcopy®
- INDIE®
- Durable Films
- Mactac PUREtac™

**Distributor Products Group**



**Graphic Products Include:**

- IMAGin® Media
- PERMACOLOR® Overlaminates
- MACmark® Vinyl
- REBEL® Multi-print Media

**Sheet Products Include:**

- STARLINER® Labels
- METRO® Offset and Digital Sheets

Mactac® Industrial Tapes offer engineered pressure-sensitive solutions for bonding and mounting applications where high strength, immediate adhesion, and superior aesthetics are needed. Mactac is a member of the Pressure Sensitive Tape Council's Responsible Tape Manufacturing program and is ISO-9001: 2015 certified.

### **Mactac Industrial Tapes**

- Double coated tapes
- Transfer adhesives
- Foam tapes
- GS Series - high strength transfer adhesive



**Visit [www.mactac.com/industrialtapes](http://www.mactac.com/industrialtapes) for performance guides and technical information.**

### **Testing Methods**

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Mactac tape was applied to the various materials using a weighted 5# roller.

All tape was applied at room temperature, and peels were conducted manually at an approximate rate of 12"/minute

**Peel testing** was measured at intervals of 30 mins, 24 hours, 72 hours and 2 weeks at room temperature.

**Accelerated aging** - 1 week @ 140°F was performed to simulate long term performance for the PSA on a given foam substrate.

### **Adhesives**

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**XT593** – High Performance Rubber with excellent combination of peel, tack and shear.

**FBR899** – Versatile Rubber adhesive with exceptional tack and good peel and shear.

**Arctic MX10** – Cold temperature adhesive, designed to be applied at temperatures as low as -10F.

**HTA410** – Aggressive acrylic adhesive with high tack and peel.

**LSE427** – Modified acrylic adhesive designed for low surface energy and textured surfaces.

**GS Rubber Rivet** – Heavy deposition transfer adhesive with extreme peel & tack, good shear

**Ultra 555** - Extreme shear strength and holding power with high peel & tack

**HSA 440** – High temp, high strength acrylic with good peel & tack

**593 Foam Tape** – 593XT adhesive on PE foam (1/32", 1/16", & 1/8" foam thickness)

**Ultra 555 foam tape** – Ultra 555 adhesive on PE foam (1/32", 1/16", & 1/8" foam thickness)

# Mactac® Adhesion Testing on Rubber Adhesive

		Steel	Aluminum	Glass	Luxury Vinyl Flooring	Composite Wood Floor	Rubber Floor Tiles	Roam Floor Tiles	Foam Floor Underlayment
Adhesive/Product	Dwell								
<b>GS Rubber Rivet</b> GS1007	Immediate	++++	++++	++++	+++	++++	++++	++++	++++
	24 Hours	++++	++++	++++	++++	++++	++++	++++	++++
	3 Days	++++	++++	++++	++++	++++	++++	++++	++++
	1 Week	++++	++++	++++	++++	++++	++++	++++	++++
<b>MP-593 Foam Tape</b> GIM1900 & 1800 Series	Immediate	++++	++++	++++	+++	++++	+++	+++	+++
	24 Hours	++++	++++	++++	+++	++++	+++	++++	+++
	3 Days	++++	++++	++++	+++	++++	++++	++++	+++
	1 Week	++++	++++	++++	++++	++++	++++	++++	++++
<b>MP-555 Foam Tape</b> IM1700 Series	Immediate	++++	++++	++++	++++	++++	+++	++	++++
	24 Hours	++++	++++	++++	++++	++++	+++	+++	++++
	3 Days	++++	++++	++++	++++	++++	+++	+++	++++
	1 Week	++++	++++	++++	++++	++++	+++	+++	++++
<b>FBR 899</b> IB1122	Immediate	++++	++++	++++	++++	++++	++	++++	+++
	24 Hours	++++	++++	++++	++++	++++	++	++++	+++
	3 Days	++++	++++	++++	+++	++++	++	++++	+++
	1 Week	++++	++++	++++	++++	++++	++	++++	++++
<b>MP-593XT</b> IB1100 Series	Immediate	++++	++++	++++	++	++	++	+++	++
	24 Hours	++++	++++	++++	++	++	++	+++	++
	3 Days	++++	++++	++++	++	+++	++	+++	++
	1 Week	++++	++++	++++	++	++++	++	+++	++
<b>Ultra 555</b> IB8161-78	Immediate	++++	++++	++++	+++	++	+	++	++
	24 Hours	++++	++++	++++	+++	+++	++	+++	++
	3 Days	++++	++++	++++	+++	+++	++	+++	++
	1 Week	++++	++++	++++	++	+++	++	+++	+++
<b>Arctic MX10</b> ARTX1162	Immediate	++++	++++	++++	+++	+++	++	++++	+++
	24 Hours	++++	++++	++++	+++	+++	++	++++	+++
	3 Days	++++	++++	++++	+++	+++	++	++++	+++
	1 Week	++++	++++	++++	+++	+++	++	++++	+++

**Key**  
++++ Foam Destruction

Non VOC Paint	Carpet Mesh Backing	Outdoor Grass Carpet	House Wrap	Foam Board Insulation	Masonry Block	Ceramic Tile	OSB Board	Tar Paper	Roof Shingle Weather Side	Roof Shingle Felt Side
++++	+++	++++	++++	++++	++++	++++	+++	++++	++++	++++
++++	+++	++++	++++	++++	++++	++++	++++	++++	++++	++++
++++	+++	++++	++++	++++	++++	++++	++++	++++	++++	++++
++++	+++	++++	++++	++++	++++	++++	++++	++++	++++	+++
++++	++	+	++++	+++	++++	++++	+	+++	++++	+++
++++	++	++	++++	+++	++++	++++	++	+++	++++	++
++++	++	++	++++	+++	++++	++++	+++	+++	++++	++
++++	++	+++	++++	+++	++++	++++	++++	++++	++++	++
++++	++	++	++++	+++	++++	+++	++	+++	+++	+++
++++	++	++	++++	++++	++++	+++	+++	++++	+++	+++
++++	++	+++	++++	++++	++++	+++	+++	++++	+++	+++
++++	+	+++	++++	+++	+++	+++	++	++++	+	+
++++	+	+++	++++	+++	+++	+++	++	++++	++	+
++++	+	+++	++++	++++	+++	+++	+++	++++	++	++
++++	+	+++	++++	++++	+++	+++	+++	++++	++	++
++++	+	+++	++++	++++	+++	+++	+++	++++	++	++
+++	++	+	++++	++	++	+++	-	+++	+	+
+++	+	+	++++	++	+++	+++	+	+++	+	+
+++	+	+	++++	++	+++	+++	+	+++	+	+
+++	+	++	++++	++	+++	+++	++	+++	+	+
++++	+	++	++++	+++	++	-	+	+++	+	+
++++	+	++	++++	+++	++	+	+	+++	+	+
++++	+	++	++++	+++	++	+	+	+++	+	+
++++	+	++	++++	++	++	+	++	+++	+	+
++++	-	++	++++	+++	++	++	+	+++	+	+
++++	-	++	++++	+++	++	++	+	+++	+	+
++++	+	++	++++	+++	++	+++	++	+++	+	+
++++	+	++	++++	+++	++	+++	+++	+++	+	+

## Mactac® Adhesion Testing on Acrylic Adhesive

		Steel	Aluminum	Glass	Luxury Vinyl Flooring	Composite Wood Floor	Rubber Floor Tiles	Roam Floor Tiles	Foam Floor Underlayment	
Adhesive/Product		Dwell								
Acrylic Adhesives	<b>MP-410</b> IF4030 Series	Immediate	++++	++++	++++	++	+++	+	+++	++
		24 Hours	++++	++++	++++	+++	+++	++	+++	+++
		3 Days	++++	++++	++++	+++	+++	++	++++	+++
		1 Week	++++	++++	++++	++++	+++	++	++++	+++
	<b>MP-440</b> IB4140 Series	Immediate	++++	++++	++++	++	++	+	+++	++
		24 Hours	++++	++++	++++	+++	+++	++	+++	+++
		3 Days	++++	++++	++++	+++	+++	++	+++	+++
		1 Week	++++	++++	++++	++++	+++	++	++++	+++
	<b>LSE 427</b> IB4172-72	Immediate	++++	++++	++++	+	+	+	+++	++
		24 Hours	++++	++++	++++	++	++	+	+++	++
		3 Days	++++	++++	++++	++	+++	+	+++	++
		1 Week	++++	++++	++++	+++	+++	+	+++	++

### Key

- ++++ Foam Destruction
- +++ Very Aggressive
- ++ Aggressive
- + Mild
- Poor





Non VOC Paint	Carpet Mesh Backing	Outdoor Grass Carpet	House Wrap	Foam Board Insulation	Masonry Block	Ceramic Tile	OSB Board	Tar Paper	Roof Shingle Weather Side	Roof Shingle Felt Side
++++	-	+++	+	+++	++	+++	+	++	+	+
++++	+	+++	++	+++	++	+++	+	+++	+	+
++++	++	+++	++	+++	+++	+++	+	+++	+	+
++++	+	+++	++	+++	+++	+++	++	+++	+	+
++++	-	++	+	+++	++	+++	+	++	+	+
++++	+	++	++	+++	++	+++	+	++	+	+
++++	+	++	++	+++	+++	+++	+	+++	+	+
++++	+	++	++	+++	+++	+++	++	+++	+	+
++++	-	+	++	++	+	+	-	++	-	-
++++	-	+	++	++	+	++	-	++	+	+
++++	+	+	+++	++	+	++	-	++	+	+
++++	+	+	+++	++	+	++	+	++	+	+



