HA Applications Comparison 2013

Board	Types of Art												Digitals										Board Info											
This chart is a combination of manufacturers suggestions AND the result of well bonded mounting results. This is a cross-section of major manufacturer brands only. Generic and private label boards are not included in this chart. Report © Chris A. Paschke, CPF GCF, updated 2013	Lightweight Porous Paper	Coated Paper-mechanical	Coated Paper-vacuum	Heavy or Textured Papers	Asian Papers	Watercolors	Original Graphic	Polyester Encapsulate	RC Photo-mechanical	RC Photo-vacuum	Fabrics / Textiles	Raw Canvas	Electrophotographic Copy	Electrostatic / Laser Copy	Dye Sublimation	Thermal Transfer	Thermal (dye) Inkjet	Thermal (pigment) Inkjet	Piezo Inkjet	Digital Canvas	Time – after draw (actual)	Temperature	Permanent	Removable	Reversible / Preservation	Required cool under weight	Boards Warped from case	Do Not Use for Bites	Neutral pH	Orange peel	Thumb Dents	Visible Adhesive Texture	Mechanical	Hot Vacuum
Heat Activated (HA)Boards													N	N			N																	
Bainbridge Artcare Restore	X				X	x	X	x	X	X											15s-1m	F150-170			X	X		X	X			x	X	X
SpeedMount	x	X	X		x			**X**	**X**	**X**	x	x			X	X		X		x	1-3m	F160-180	X					X			X	X	X	X
Heat Activated Foam-HAF	x	X	X		X			**X**	**X**	**X**	x	x			**X**	**X**		X	X	x	1-3m	F175-190		X		X		X			X	X	X	X
Bienfang Single Step	**X**	X	X	X	X				X	X	X	X			X	X			X	X	2-3m	F180	X				X				X	X	X	X
Step 150 (discontinued)	**X**	X	X	X	X			**X**	**X**	**X**	X	X			X	X		X	X	X	15s-3m	F150		X		X		X			X		X	X
Alcan/IP HA Fome-Cor	**X**	X	X	X	X			**X**	**X**	**X**	X	X			X	X			X	X	1.5-3m	F170-180	X								X	X	X	X
Gilman Insite Heat-Activated Foamboard	**X**	X	X	X	X			**X**	**X**	**X**					X	X		X	X		15s-1m	F160	X				X		X				X	X
Hartman HartMount	**X**	X	x		X				**X**	**X**					X	X			X		1-3m	F185	X				X					X	X	X
Savage NuCor Heat Activated Foam	X	X		X					X	X					X	X			X		20s-1m	F180		X		X		X				X	X	X
Filmtax ProCore Heavy Wt	X	X		X											X	X			X		30s-1m	F200	X					X	X	X			X	X
Kool Tack Foamboard Preserve	X	X	X			x	X		**X**	**X**								x			15s-30s	F150-160			X	X		X	X	x		x	X	X
Drymount Foamboard Archival	X	x	x	x	x			-	**X**	**X**	x	x			x	x		x	X	x	15s-1m	F150-160		X		X				x			X	X
Drymount Foamboard - white	**X**	**X**	**X**	**X**	**X**			-	**X**	**X**		x			X	X		X	**X**	x	15s-45s	F150-160		X		X							X	X
Drymount Foamboard - black	**X**	**X**	**X**	**X**	**X**			-	**X**	**X**	X	X			X	X		X	X	x	15s-45s	F150-160		X		X	X			x			X	X
3X Mounting Board	**X**	**X**	**X**	X	**X**			-	**X**		x	x			X	X		X	X	x	15s-30s	F150-160		X		X				x			X	X

Legend: x = moderate bond
X = good bond
X = excellent bond and tear strength
N = not recommended for heat applications

Mechanical Press Tests
A Seal 210M-X mechanical press was set at manufacturer suggested temperatures for all test unless otherwise indicated on the spread sheets. All test boards were cut into 8x10 mounting porous paper, RC photograph, digital canvas, and raw canvas. Removable—thermoplastic—boards cannot be used for mechanical press multiple bites so only Alcan Fome-Cor, Bienfang HAF, HartMount, Gilman Insite, or Single Step may be used.

Vacuum Press Tests
A 4060 VacuSeal was used for vacuum system for testing. Full 3240 boards were used with heavy 60-90# open edition offset lithographs. Smaller 8x10 RC photos were also tested, but all mounted on assorted same time/temp boards in unison, to better replicate the size issue of the above full sheet applications. The low temperature/short dwell time boards were tested at F160 for 2 minutes, all successfully; then higher temperature/dwell time boards such as Alcan, HartMount, Single Step, and NB-HAF were mounted at F180 for 2 minutes, then at 3 minutes if the first duration was inadequate. All boards were mounted, removed and cooled under a weight exactly the same prior to checking the bond.

Basic Observations
Most hold porous lightweight papers very well, with full T-peel bonding.
Though claiming adhesive permanence, many allow bonded art to be peeled off with little effort and essentially no damage.
Half do not bond fabrics well eliminating them for use with digital canvases.