



PLASTIC WELD SOLVENT CEMENT

The leading general purpose solvent cement for fast, permanent bonding of most dissimilar plastics. Immediately tacky. Sets in minutes. Permanently bonds ABS to Butyrate, ABS to Styrene, ABS to Acrylic and more. Actually dissolves a thin film of the surfaces to be joined, creating a bond as strong as the surrounding areas. Also works as a liquid filler. Full coverage attained by capillary action. Comes with applicator brush in cap.

2 oz (59 ml.) Bottle.
16 oz (473 ml.) Bottle.

CODE: PPC-2
CODE: PPC-16

BONDENE SOLVENT CEMENT

A specially formulated solvent cement for fast, permanent bonding of most similar plastics, including Styrene. Quickly bonds ABS to ABS, Styrene to Styrene, Butyrate to Butyrate and Acrylic to Acrylic. Actually melts the surfaces together, creating a bond as strong as the surrounding areas. Full coverage attained by capillary action. Comes with applicator brush in cap.

2 oz (59 ml.) Bottle.
16 oz (473 ml.) Bottle.

CODE: BOND-2
CODE: BOND-16



NON-TOXIC WELDENE SOLVENT CEMENT

Here's a New, NON-TOXIC solvent cement for fast, permanent bonding of Styrene plastics. Environmentally safe with a non-offensive, citrus aroma. Immediately tacky. Sets in minutes, cures in hours. Actually dissolves a thin film of the surfaces to be joined, creating a bond as strong as the surrounding areas. Full coverage attained by capillary action. Comes with applicator brush in cap. 2 oz (59 ml.) Bottle.

CODE: WELD-2

WELD-ON #4 ACRYLIC SOLVENT CEMENT

The best solvent cement for bonding most common Acrylic plastics to similar plastics (will not bond cross-linked Acrylics). Clear, water thin formula with a fast dry and cure time. Full coverage attained by capillary action. 16 oz (473 ml.) Can.

CODE: WOC-3



CYANOACRYLATE GLUES

Here's a broad selection of Cyanoacrylate glues and associated products to meet most difficult bonding requirements. Three thicknesses of commercial quality glues in original and odorless formulas along with a spray accelerator and a very valuable de-bonder give you total control in bonding most hard-to-glue applications. Also available is our industrial strength; much stronger and slow setting and curing, but well worth the wait.

CAUTION SHOULD BE TAKEN WHEN USING THESE PRODUCTS.



CODE	SIZE	DESCRIPTION CONSISTENCY
CYC-1	1 oz. 29 ml.	Original Thin Glue
CYC-2	1 oz. 29 ml.	Gap Filler
CYC-3	1 oz. 29 ml.	Extra Thick Glue
CYC-10	1 oz. 29 ml.	Industrial Strength Glue
CYA-3	2 oz. 59 ml.	Spray Accelerator
CYU-2	1 oz. 29 ml.	Glue De-Bonder



5, 15 & 30 MINUTE EPOXY CEMENTS

Three excellent, Two-Part Epoxy Glues for general modeling use. Ideal and recommended when gluing foams and dissimilar materials. Cure times are 5, 15 or 30 minutes. The two 2-1/4 oz. (67 ml.) bottles are graduated for easy and accurate mixing.

CODE	SIZE	DESCRIPTION
EPX-5	4-1/2 oz. 133 ml.	5 Minute Epoxy Cement
EPX-15	4-1/2 oz. 133 ml.	15 Minute Epoxy Cement
EPX-30	4-1/2 oz. 133 ml.	30 Minute Epoxy Cement

GE SILICONE II GLUE

An excellent, thick bodied, flexible glue for general modeling use. Ideal and recommended when gluing Styrene Plain and Patterned Sheets. The thick body fills pattern voids, providing better adhesion. Also ideal as a tree planting glue. Does not melt the plastic, dry out, crack or discolor.

2.8 oz. (83 ml.) Tube with applicator nozzle.

CODE: GES-2



WELDWOOD WOOD GLUE

The all-purpose wood glue. Weldwood sets fast and grips tight. Resists heat, water, solvents, oil and grease. Excellent for home and shop.
8oz. (235 ml.) Bottle.

CODE: WAR-8



KRISTAL-KLEER LIQUID PLASTIC

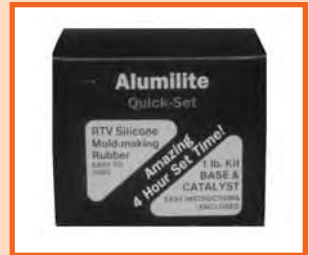
Clear liquid plastic for windows, lights or general plastic touch-up. May be used to fill openings up to 1/4" (6.4mm) wide. Easily tinted with food color. 1 oz (29 ml.) Bottle.

CODE: CLP-2

ALUMILITE QUICK-SET RUBBER

Alumilite Quick Set RTV Silicone Rubber allows fast reproduction of almost any master pattern. Unlike most rubber mold materials, this unique material has a 30 minute working time and cures in just 4 hours. 1 lb. (.45 kg.) package includes catalyst.

CODE: ALUM-16



ALUMILITE 5 MINUTE PUTTY

Alumilite 5 Minute Silicone Putty allows immediate reproduction of almost any small master pattern. Eye-ball equal amounts of the two parts and kneed them together for about 45 seconds. Press your master and, in 5 minutes, you are ready to pour your casting material. 1 lb. (.45 kg.) package.

CODE: ALUM-1

ALUMILITE LIQUID CASTING PLASTIC

Alumilite is a two-part, white liquid casting plastic that goes from liquid to solid in just three minutes. It is easy to use, virtually odorless, and will duplicate any part, down to the most minute detail. It can be easily sanded, drilled, machined, painted or even plated. Alumilite comes with equal 14 oz. (414 ml.) bottles of the two-part chemicals, measuring cups, mixing sticks and working instructions.

CODE: ALUM-28



NEED IT FAST?

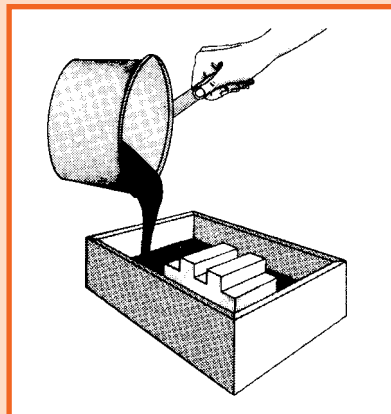
Specify Fed-Ex or UPS Next Day Service. We also offer 2 and 3 Day Air Service, as well as Economical Ground.

VINYL MOLDING COMPOUND

Meltable, flexible molding compound, ideal in forming flexible molds for casting reproductions with most casting resins. Made of a composition of Vinyls, few tools and only simple equipment are required. Can be rendered for mold making by low to medium heat on a domestic stove using a saucepan. Unlike most other flexible mold compounds, worn or obsolete molds may be cleaned and re-melted many times over, dependent upon the care and control exercised during melting. Instructions and safety data included. 1 lb. (.45 kg.) package.

Melting temperature is 302°-338°F (150°C-170°C); pouring temperature is 284°-302°F (140°C-150°C).

CODE: MMC-16



MILLIPUT EPOXY PUTTY

Three grades of two-part epoxy putty for modeling, repairing household items or sculpting. Works like putty, hardens like rock in two to three hours, and may be machined like plastic or wood. Adheres to and will seal or bond metals, wood, plastics, glass, ceramics or even cement.

MEP-1 and MEP-2 are for general use, while MEP-3 is preferred where fine detail is desired.

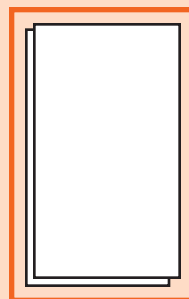
CODE	SIZE	COLOR / CONSISTENCY
MEP-1	4 oz. 113 gr.	Yellow-gray / Regular
MEP-2	4 oz. 113 gr.	Silver-gray / Regular
MEP-3	4 oz. 113 gr.	White / Fine

DOUBLE SIDED ADHESIVE SHEET

Permanent double sided clear adhesive sheet. Great for flat bonding of plastic sheets, wall paper, photos, etc.

2 sheets per pack. Sheet size: 6-3/4" x 12" (172mm x 300mm)

CODE: SCKP-1



PVC GLOVES

Surgical style, industrial grade, disposable, PVC Gloves for use when casting with Polyurethane casting resins or whenever you feel added safety is best. Also great for household chores or wherever chemicals are used. Furnished in pairs.

CODE: CDG-2



IN A HURRY?

Call our Toll Free 800 Order Line and pay by VISA/MasterCard. (800) 666-7015 8:00 am-2:00 pm Pacific Time.



SOLVENT SYRINGES

Three Solvent Syringes for accurate and clean application of solvent cements. Blunt needle allows exact placement of solvent in hard to reach places.

CODE	CAPACITY
HT-8	3cc
HT-10	10cc
HT-12	20cc

SOLVENT DISPENSER

The ideal dispenser for solvent cements. Stainless-steel pump unit with Polypropylene bottle withstands most solvents. Light pressure on dispensing dish instantly pumps desired amount of solvent into the dish. No spills, fumes or contamination. Not recommended for any viscous or bodied cements. 4 oz. (116ml) bottle.

CODE: HT-612



SOLVENT APPLICATOR DROPPER

1 oz. (29 ml.) capacity bottle with "eye-dropper" blunt applicator needle allows precise assembly with solvent cements.

CODE: HT-1

STAINLESS STEEL MODEL SCALE RULERS

One of the most useful and necessary tools in model building, quality, stainless steel rules in 6" (150mm) pocket and 12" (300mm) bench models. The "All Railroad" scale rules include O, S, HO, N and Z scales.

CODE	LENGTH		SCALE
HT-100	12"	300mm	All Railroad Scales
HT-105	6"	150mm	All Railroad Scales
SSC-8	12"	300mm	O 1/4" = 1'-0" 1:48
SSC-86	6"	150mm	O 1/4" = 1'-0" 1:48
SSC-12	12"	300mm	#1 3/8" = 1'-0" 1:32
SSC-126	6"	150mm	#1 3/8" = 1'-0" 1:32
SSC-16	12"	300mm	G 1/2" = 1'-0" 1:24
SSC-166	6"	150mm	G 1/2" = 1'-0" 1:24
SSC-24	12"	300mm	L.S. 3/4" = 1'-0" 1:16
SSC-246	6"	150mm	L.S. 3/4" = 1'-0" 1:16
SSC-33	12"	300mm	Metric 1:33
SSC-336	6"	150mm	Metric 1:33



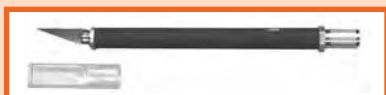
HOBBY SAW

Excellent Hobby Saw has a 1-3/16" (30.2mm) deep by 5" (127mm) long cut. Blade has 32 teeth per inch (25.4mm), and is replaceable.

CODE: HT-500

Replacement Blades.

Pack of 3 blades. **CODE:** HT-508



HOBBY KNIFE

Handy Hobby Knife with sure-grip handle and rear blade release, insuring blade stability. Clear blade shield included.

CODE: HT-391

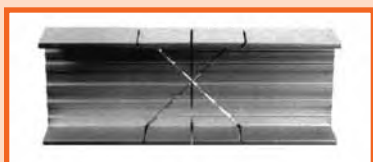
Replacement Blades.

Pack of 5 Blades. **CODE:** HT-392

PLASTIC SHEET CUTTER

Scribe and break sheet to any size or shape with this handy tool. Most plastic sheets will break cleanly when scribed 3/4 through the thickness. Blade never needs replacing.

CODE: HT-2



HOBBY MITRE BOX

Aluminum Hobby Mitre Box makes cutting plastic and wood model parts easy and accurate. 5-1/2" (140mm) long, 1-3/4" (45mm) wide and 3/4" (19.1mm) deep.

CODE: HT-533

PROFESSIONAL MITRE BOX

Hardwood Professional Mitre Box makes repetitive model parts cutting simple, accurate and fast. Cork footing pads allow use on most surfaces without slipping or marring. Varathane coated hardwood with teflon lined cutting slots and adjustable stop block. Cutting angles include 30°, 45°, 50°, 67-1/2° and 90°.

CODE: HT-534



IN A HURRY?

Call our Toll Free 800 Order Line and pay by VISA/MasterCard. (800) 666-7015 8:00 am-2:00 pm Pacific Time.



6" STRAIGHT HEMOSTATS

6" (150mm) long surgical quality Straight Hemostats make tight work easy. Serrated lock jaws allow continuous gripping for positioning and setting. Stainless steel.

CODE: HT-42

RIVET TOOLS

Three unique tools for quickly and easily indenting rivet heads on thin plastic. Pin point rollers create rivet heads on the back side of sheet or strip plastic using medium pressure. Simply scribe a guide line on the back side of your plastic and roll the Rivet Tool along the line for instant rivets.



CODE	PATTERN		RECOMMENDED	
	SPACING		SCALE	
HT-90	.075	1.9mm	O	1:48
HT-92	.065	1.7mm	HO	1:100
HT-94	.055	1.4mm	N	1:200



MACHINISTS SQUARES

Three all-steel, precision tools indispensable for accurate assembly of structures and other model work.

CODE	BLADE	
	LENGTH	
HT-503	3"	75mm
HT-504	4"	100mm
HT-506	6"	150mm

MODEL PERISCOPE

Look into your model or layout from the ground floor and see it through the eyes of your scale people through the use of mirrors. Achieve true perspective or check clearances in hidden areas. A great conversation tool. Reflection surface is 2" (50mm) x 2-1/4" (57mm).

CODE: PER-2



VINYL ELECTRICIANS TAPE

Versatile vinyl electricians tape for temporary holding of assemblies and jigs as well as numerous other jobs.

CODE: ET-1

THE CHOPPER

The Chopper from Northwest Shortline, one of the most useful tools ever for rapid and accurate cutting of wood or Styrene strip & rod and small profiles. Provides clean, neat, feather-free, accurate cuts with a single edge razor blade. Included mitre allows accurate 30°, 45° and 60° cuts. An adjustable stop permits exact duplication of pieces up to 3-1/4" (82.6mm) long. Three extra cutting blades included. Base size 7-1/2" (190mm) x 7-1/2" (190mm).

CODE: HT-700

Replacement Blades.

Pack of 8. **CODE:** HT-702



THE CHOPPER II

The Chopper II from Northwest Shortline, who took one of the most useful tools (The Original Chopper) and made it even better. A great tool for rapid and accurate cutting of wood, Styrene strip & rod and small profiles. Provides clean, neat, feather-free, accurate cuts, of any angle, with a single edge razor blade. Included precision guides allow accurate 30°, 45° and 60° cuts. Premium all metal base and handle. Base size 7-1/2" (190mm) x 7-1/2" (190mm).

CODE: HT-703

Replacement Blades.

Pack of 8. **CODE:** HT-702

THE CHOPPER III

The Chopper III from Northwest Shortline is another great tool for rapid and accurate cutting of wood, Styrene strip & rod and small profiles. Provides clean, neat, feather-free, accurate cuts, of any angle, with a single edge razor blade. Included precision guides allow accurate 30°, 45° and 60° cuts. Designed after "The Chopper" (HT-700) except this one has a base size of 7-1/2" (190mm) x 18" (457mm) wide providing space for more easily working with longer materials. Has room for two additional handles (not included) for modelers and professionals who wish to keep 1, 2 or 3 work station set-ups intact at one time.

CODE: HT-710

Replacement Blades.

Pack of 8. **CODE:** HT-702



IN A HURRY?

Call our Toll Free 800 Order Line and pay by VISA/MasterCard. (800) 666-7015 8:00 am-2:00 pm Pacific Time.



PRO HOT-WIRE FOAM CUTTER

Specially designed and built for the professional model maker to cut expanded Polystyrene Foam efficiently, quietly and safely by means of an electrically-heated wire. Virtually any shape can be formed from expanded foam, with large pieces being fabricated in parts and joined together. The cutting wire is adjustable from 90° to 45° to accommodate a variety of shapes. The tension arm height allows cutting blocks up to 12" (300mm) thick. Working surface of table top is 23" (584mm) x 23" (584mm). The "push on/push off" rheostat power switch allows adjustment of wire heat for varying thicknesses and densities of foam. Includes an adjustable fence and pivot pin for cutting rounds. A groove in the table top is designed to hold our stainless steel rule (not included) for scale dimensioning.

Replacement Wires

10' (3 m) of #27 Nichrome Wire

CODE: PT-727

10' (3 m) of #29 Nichrome Wire

CODE: PT-729

WARNING: NOT DESIGNED FOR CUTTING URETHANE FOAMS

CODE: PT-700

HOBBY HOT-WIRE FOAM CUTTER

Basic, no-frills design provides an affordable means for cutting of Expanded Polystyrene Foam. Ideal for the serious hobby, craft and educational fields.

The tension arm height allows cutting blocks up to 14" (350mm) thick. Working surface area of table top is 11-1/2" (300mm) x 12" (300mm).

WARNING: NOT DESIGNED FOR CUTTING URETHANE FOAMS

CODE: PT-720



Replacement Wire

14" (350mm) piece of .025 (0.6mm) Wire

CODE: PT-722



CRAFT HOT-WIRE FOAM CUTTER

Battery operated, hand held hot wire cutter for cutting small pieces of Expanded Polystyrene Foam. Ideal for small hobby and craft projects as well as floral design.

The tension arm height allows cutting pieces up to 1-1/2" (38mm) thick. Operates on 2 D-Cell batteries (not included) that fit into the handle.

WARNING: NOT DESIGNED FOR CUTTING URETHANE FOAMS

CODE: PT-710

Replacement Wire

3 piece pack

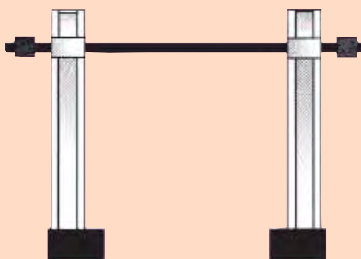
CODE: PT-712

THE TRUE SANDER

The New, True Sander from Northwest Shortline, is a great companion to The Chopper as a useful tool for rapid and accurate finishing of wood or Styrene strip & rod and small profiles. Provides a perfect, square-fit end to most model parts. Aluminum sanding block will accept any commercially available sand paper. Included mitre allows accurate 30°, 45° and 60° angles. Base size 7-1/2" (190mm) x 7-1/2" (190mm).



CODE: HT-705



BERNA ASSEMBLERS

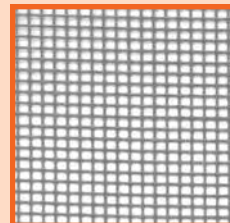
A versatile, lightweight, clamping system, more convenient and easier to use than the conventional metal or plastic clamps. Each assembler allows complete control of force applied with flexible rubber buffers that adjust to contours in the model part. Package contains two large and one small assembler, connectors and complete instructions.

CODE: HT-725

WINDOW SCREEN/FENCE MESH

7" (175mm) x 10" (250mm) flexible mesh ideal for doll house or large scale model railroad buildings window screen material. Manufactured from a poly vescu material, it can easily be cut with scissors or a hobby knife.

Sold in packages of 2 pieces.



CODE: SWM-12



Photo courtesy of Kalmbach Publishing Co. © 2004. Used with permission of Model Railroader Magazine.



FIBER OPTICS LIGHTING

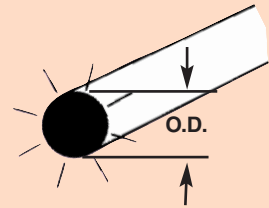
Use the lighting technique of tomorrow, today. Light an entire city with one light bulb. Versatile and easy to use; instructions come with each purchase. The only thing not included is the light source. Available in loose strands or on bulk spools. FOP-4000 is a jacketed multi-strand bundle.

CODE	PKG. QTY.	ACTUAL SIZE			
		O.D.		LENGTH	
FOP-10	10	.010	0.3mm	12'	3.7m
FOP-20	5	.020	0.5mm	12'	3.7m
FOP-30	4	.030	0.8mm	12'	3.7m
FOP-40	2	.040	1.0mm	12'	3.7m
FOP-60	1	.060	1.5mm	12'	3.7m
FOP-1010	1	.010	0.3mm	300'	91m
FOP-1020	1	.020	0.5mm	200'	61m
FOP-1030	1	.030	0.8mm	150'	45m
FOP-1040	1	.040	1.0mm	100'	30m
FOP-4000	48	.010	0.3mm	6'	1.8m

FLUORESCENT FIBER OPTICS

A unique additive gathers light from the sides of the strand and emits it from the ends. Add colorful lighting to models without a lightbulb. Versatile and easy to use; instructions come with each purchase.

Use for tail lights in car modeling, signal lights in model railroading, or even target sights. Great for artistic craft projects too.



CODE	ACTUAL		COLOR
	O.D.		
FFOB-20	.020	0.5mm	BLUE
FFOB-30	.030	0.8mm	BLUE
FFOB-40	.040	1.0mm	BLUE
FFOB-60	.060	1.5mm	BLUE
FFOG-20	.020	0.5mm	GREEN
FFOG-30	.030	0.8mm	GREEN
FFOG-40	.040	1.0mm	GREEN
FFOG-60	.060	1.5mm	GREEN
FFOR-20	.020	0.5mm	RED
FFOR-30	.030	0.8mm	RED
FFOR-40	.040	1.0mm	RED
FFOR-60	.060	1.5mm	RED
FFOY-20	.020	0.5mm	YELLOW
FFOY-30	.030	0.8mm	YELLOW
FFOY-40	.040	1.0mm	YELLOW
FFOY-60	.060	1.5mm	YELLOW

NOTE: 20" (500mm) Length.

Also available in 10" (250mm) lengths for half the listed price and 40" (1m) lengths for twice the listed price. To order the 10" length, add "H" to the end of the Product Code; for 40" lengths, add an "L"

Examples: FFOY-20H for 10"
FFOY-20L for 40"

PLASTABETS PLASTIC LETTERS

Plastic letters and numbers for lettering model store fronts and other buildings, name plates, displays as well as real-life floor directories. The uses are limitless. Approximately 160 characters per set. For blemish-free application, soak a sponge with one of our solvent cements and, using tweezers, touch the underside of the letters to the sponge before placing in position. Precision Injection Molded in White Styrene Plastic.



CODE	ACTUAL HEIGHT	
PABT-2	5/64"	2.0mm
PABT-4	5/32"	4.0mm
PABT-6	15/64"	6.0mm
PABT-10	25/64"	10.0mm



VINYL LETTERS & NUMBERS

Plastic Vinyl letters and numbers for lettering model store fronts and other buildings, name plates, displays, signs as well as school presentations. The uses are limitless. Available in either white or black color, these self-adhesive characters make lettering and numbering easy. May be applied to most all surfaces. Durable adhesive and weather resistant material make these great for outdoor applications too.

CODE	ACTUAL HEIGHT		COLOR	PKG. QTY. & DESCRIPTION
LETR-15	19/32"	15.0mm	Black	95 Letters
LETR-115	19/32"	15.0mm	White	95 Letters
LETR-20	25/32"	20.0mm	Black	61 Letters
LETR-120	25/32"	20.0mm	White	61 Letters
NUMR-15	19/32"	15.0mm	Black	95 Numbers
NUMR-115	19/32"	15.0mm	White	95 Numbers
NUMR-20	25/32"	20.0mm	Black	61 Numbers
NUMR-120	25/32"	20.0mm	White	61 Numbers

OIL COMPANY DECALS

Water sensitive, **COLOR** Oil Company logo Decals and hazardous signs to dress-up your related industries. Nine decals per sheet. Available in three popular scales.



CODE	SCALE	
DECAL-1	HO	1:87
DECAL-2	N	1:160
DECAL-3	O	1:48