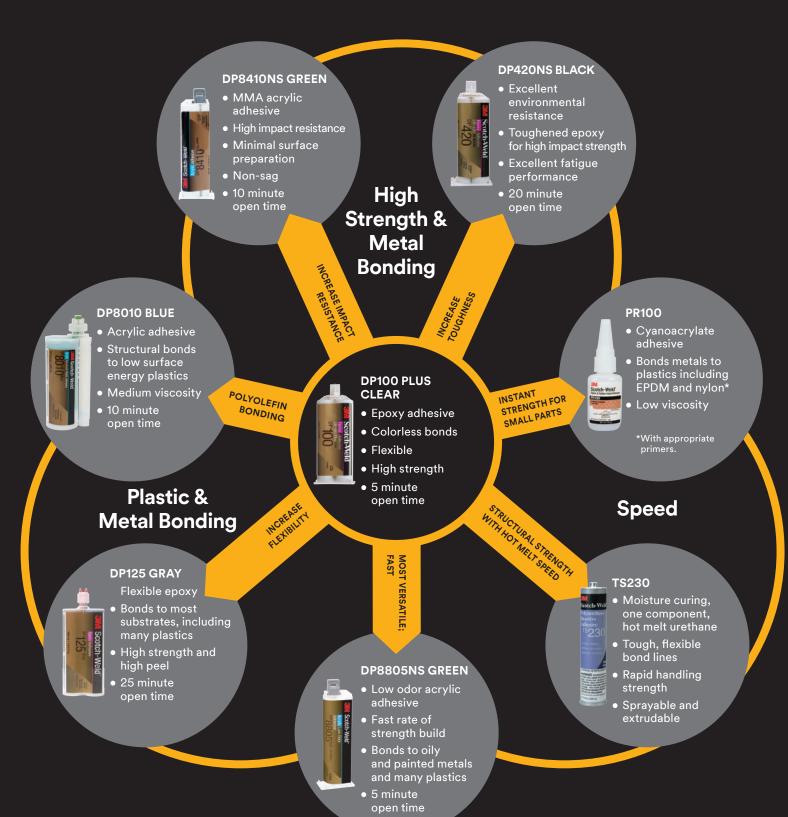


3M[™] Scotch-Weld[™] Structural Adhesive Solutions for Design, Process

for Design, Process and Performance

3M™ Scotch-Weld™ Structural Adhesives

Adhesive Science for Bonding Solutions





Improve Aesthetics

- Replace rivets, welds and screws
- Invisible joints
- Create smoother bond lines

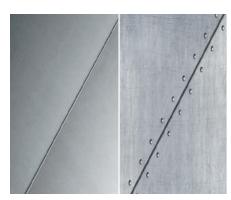
Lightweighting

- Eliminate the weight of mechanical fasteners
- Use thinner, lighter materials
- Build with composites and hard-to-bond plastics

Freedom to Design

- Adhere difficult-to-bond materials, such as HDPE/PP
- Bond multiple materials, such as metal to plastic
- Smaller joints take up less space

Producing a seamless appearance





Recommended 3M products: DP100 PLUS & DP420NS

Making products lighter and more efficient







Recommended 3M products: **DP8010 & DP420NS**

Extending your design latitude







Recommended 3M products: **DP8010 & DP8805NS**



Cost-Efficient

- Reduce labor costs
- Use thinner materials to decrease costs
- Eliminate post-finishing

Enhance Productivity

- Variety of cure rates to match your process needs
- Build faster with minimal surface prep
- Withstands high process temperatures

Accurate and Easy

- Control dispensing with 3M™ EPX™ exact proportioning and mixing applicators
- Match your processing needs with a range of viscosities and flow rates
- Handle large applications with bulk meter-mix equipment

Saving both time and money

Adhesive vs Bolt

1" x 24" Application 97% Weight Reduction 22% Cost Reduction

1" X 24" BEAD O	F
ADHESIVE	

STANDARD BOLTS 6" APART

Weighs
4 grams
and costs
\$0.97

Weighs
125 grams
and costs
\$1.27

(5 bolts with nuts)

10% = 6-7%

weight reduction

fuel savings

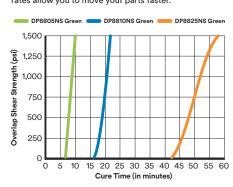
\$3.24 per foot

\$2.27

Accelerating output and efficiencies



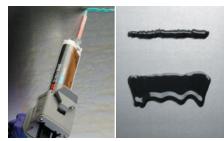
Structural Acrylic Adhesives — with various open times and exceptionally fast cure rates allow you to move your parts faster.



Recommended 3M products: **DP8410NS & DP420NS BLACK**

Eliminating hand mixing





Recommended 3M products: TS230 & DP8805NS

Performance Optimization

Stronger Bonds

- Eliminate stress concentrations
- Toughened adhesives absorb shock for durable bonds
- Bond and seal simultaneously

Flexible Bonds

- Absorb vibration and CTE mismatch*
- Reduce NVH (noise vibration harshness)
- Resist material separation along edges and corners with high peel strength

Quality & Durability

- Improve vibration and fatigue resistance
- Environmental and chemical resistance
- Eliminate galvanic corrosion

Providing solutions for high-strength applications



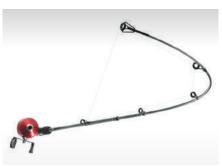


Recommended 3M products: **DP420NS & DP8410NS**

Enhancing durability in tough environments







*Coefficient of thermal expansion.

Recommended 3M products: **DP125 & DP100PLUS**

Bonds that last under harsh conditions





Recommended 3M products: **DP8410NS & DP8010 BLUE**

3M™ Scotch-Weld™ Structural Adhesive "Lead" Products														
			Maluni	are viscosity	ø. 6)		dine	notin	\ .o\ /	/	Shear (psi)	r .ure Range		
Produ	Ken keati	į	A Ratio	Ser Obertal	set Set	Time Approxit	at thos	Belleels,	15° 15° (100 K	Seco Longler	Petar. Sixe	UPC	Stock*
DP100 Plus 100 Plus (Clear)	Flexible bonds Colorless	1:1	8,500	4 minutes	N/A	20 minute	55	3,000	3,500	200	-67F - 325F	50ml 200ml 400ml 5 gal. pail B 5 gal. pail A	00-021200-87195-5 00-021200-87266-2 00-021200-87267-9 00-021200-87197-9 00-021200-87198-6	62-3272-1435-9 62-3272-3830-9 62-3272-3530-5 62-3272-8530-0 62-3372-8530-8
DP125 125 (Gray)	High performance Flexible bonds	1:1	52,500	25 minutes	N/A	2.5 hours	85	3,400	4,300	400	-67F - 325F	50ml 200ml 400ml 5 gal. pail B 5 gal. pail A	00-002100-87211-2 00-002100-87842-8 00-002100-87843-5 00-002100-87217-4 00-002100-87218-1	63-3291-1435-9 62-3291-3830-9 62-3291-3530-5 62-3293-8530-6 62-3393-8530-4
DP420NS 420NS (Black)	Tough durable bonds Non-sag	2:1	180,000	20 minutes	N/A	2 hours	60	4,500	4,500	1,250	-67F - 350F	37ml 200ml 400ml 5 gal. pail B 5 gal. pail A 55 gal. drum B 55 gal. drum A	00-021200-39285-6 00-021200-39286-3 00-021200-39287-0 00-021200-56587-8 00-021200-31309-7 00-048011-58132-3 00-048011-58133-0	62-3299-1435-2 62-3299-3832-8 62-3299-3532-4 62-3299-8535-2 62-3399-8530-1 62-3299-9530-2 62-3399-9530-0
DP8010 8010 Blue	Bonds polyole- fins and low surface energy materials	10:1	20,000	10 minutes	N/A	1 hour		2,700	2,700	500	-67F - 250F	45ml 490ml 1 gallon A 5 gal. pail B 5 gal. pail A 55 gal. drum B	00-051115-71600-3 00-051115-71601-0 00-021200-49113-9 00-051115-71669-0 00-021200-49115-3 00-051115-81460-0	62-2863-1445-5 62-2863-3630-0 62-2883-7530-6 62-2863-8530-7 62-2883-8530-5 62-2863-9530-6
DP8805NS 8805NS (Green)	Low odor Fast rate of strength build	10:1	80,000	5 minutes	N/A	10 minutes	30		3,600	900	-20F - 280F	45ml 490ml 5 gal. pail of Part B 55 gal. drum of Part B A3-2 Accelerator 1 gal. can A3-2 Accelerator 5 gal. pail	00-051115-68958-1 00-051115-68959-8 00-051115-68979-6 00-051115-68984-0 00-051115-81415-0 00-051115-81414-3	62-2852-1445-8 62-2852-3630-3 62-2852-8530-0 62-2852-9530-9 62-2962-7530-8 62-2962-8530-7
DP8410NS 8410NS (Green)	High impact Adhesion to most plastics	10:1	70,000	10 minutes	N/A	25 minutes	50		4,100	800	-40F - 280F	45ml 490ml 5 gal. pail of Part B 55 gal. drum of Part B A3-1 Accelerator 1 gal. can A3-1 Accelerator 5 gal. pail	00-051115-70994-4 00-051115-70995-1 00-051115-70997-5 00-051115-71101-5 00-051115-68981-9 00-051115-68980-2	62-2860-1445-1 62-2860-3630-6 62-2860-8530-3 62-2860-9530-2 62-2952-7530-9 62-2952-8530-8
PR100 (Clear)	General purpose, low viscosity plastic and rubber bonder	N/A	100	N/A	10-30 seconds	N/A	N/A				-65F - 180F (-54 - 82C)	20 gram bottle 500 gram bottle 1 lb. bottle 2 kilo bottle	00-051115-25214-3 00-051115-25939-5 00-051115-25213-6 00-051111-07176-2	62-6164-0360-6 62-6164-3865-1 62-6164-3860-2 62-6164-6860-9
Produ	et (Color)	¥e ₄	Features	Mix	Age Age	Bin Viscosit Originale (12) Open	A Time Lite	Settin	e Durom	ster (D)	halle Strenth Lione	stion Size	N.c.	Stock*
TS230 (Off White)	Sprayable/extrudal Bonds a variety of p polystyrene, alumin	ole with l	long set time	e. N/A	9,000	4 minutes	s 150 seco		45	3,300 psi	700%	1/10 of gal. cart. 2 kilo bag (4.4 lbs) 5 gal. pail 55 gal. drum	0-00-51115-25165-8 0-00-48011-53271-4 0-00-21200-83640-4 0-00-21200-83639-8	62-3870-5238-4 62-3870-6839-8 62-3870-8530-1 62-3870-9530-0

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Industrial Adhesives & Tapes Division

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