



Dispensing Guide for 3M™ Scotch-Weld™ Two-Part Epoxy Adhesive DP420 Black

Technical Bulletin

November 2021

Uncured Properties

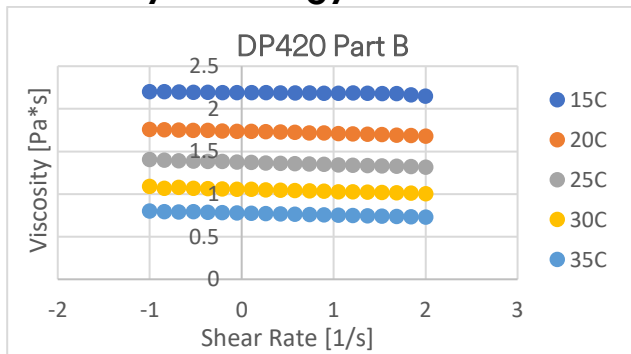
DP420 Black	B Base	A Accelerator
Color	Black	Amber
Ratio by volume	2	1
Ratio by weight	2	0.97
Density (lb/gal)	9.3-9.7	9.0-9.4
Viscosity (cP)	20,000-50,000	8,000-14,000
Thixotropic Index	1.06	1.96

Packaging

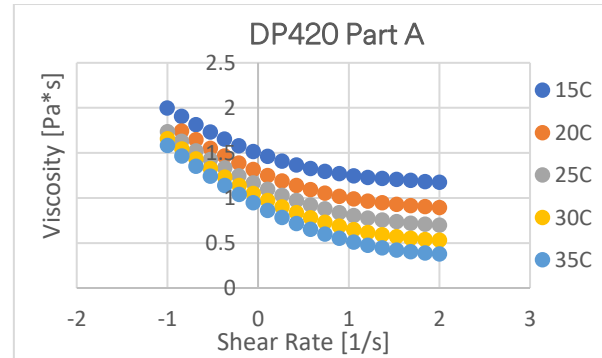
	Description
45-50ml	Mixpac B system
200*/400ml	Mixpac C system
5-gallon pail	Straight sided I.D. of 341.31mm x 285.75mm
55-gallon drum	Straight Sided 603.25mm Dia x 884.22mm H

*where available

Viscosity/Rheology



*Note: Viscosity measurements done by cone and plate



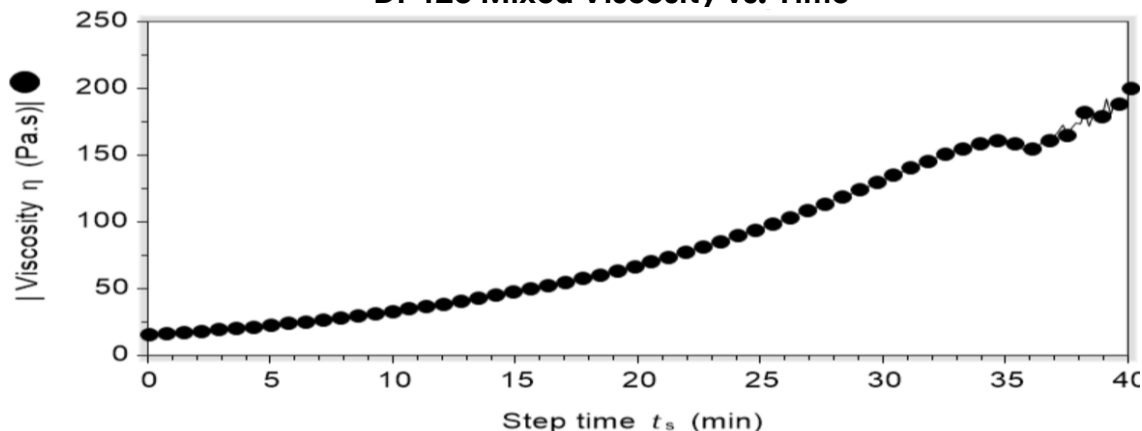
Cartridge Startup

When dispensing from a cartridge level the A&B pistons at initial set up. Material should be purged from the static mixer until a homogenous mix between parts A&B is achieved.

Purge Recommendation

For short purge times between runs the graph below shows the mixed viscosity of DP420 over time, based on static mixer and purge volume use this graph for a recommended purge time. For a one component purge using bulk dispensers, purge with DP420 Part B.

DP420 Mixed Viscosity vs. Time







*Note: Viscosity vs Time measurement at 25°C

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Mixing Nozzles

50ml	200/400ml		
Quadro Mix Elements:16 Length (mm):85 Volume (ml):1.88 	Helical Mix Elements:24 Length (mm): 185 Volume (ml): 4.20 	Quad Mix Elements: 20 Length (mm):126.9 Volume (ml): 5.4 	Helical Mix Elements: 24 Length (mm) 277 Volume (ml): 14.60 
sku:7100148765	sku:7000046633	sku:7000028616	sku: 7000043674

Cleaning of Equipment

Excess uncured adhesive can be cleaned with methyl ethyl ketone (MEK). Follow equipment manufacturing procedures for cleaning of their equipment.

Abrasives

No abrasive fillers are used in this material.

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Industrial Adhesives and Tapes Division
 3M Center, Building 225-3S-06
 St. Paul, MN 55144-1000
 800-362-3550 • 877-369-2923 (Fax)
3M.com/structuraladhesives

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