

Devcon Plastic Steel® 5-Minute® Putty (SF)

Epoxy; Epoxide

Devcon

Message:

A steel-filled, fast-setting epoxy putty for filling, rebuilding, and bonding metal surfaces.

Intended Use:

Restores worn or fatigued metals; patches castings; makes jigs and fixtures; rebuilds pump and valve bodies; restores bearing journals and races

Product features:

Bonds to aluminum, concrete, and many other metals

Resistant to chemicals and most acids, bases, solvents, and alkalis

Applies easily to vertical surfaces

Machinable to metallic finish

General Information			
Filler / Reinforcement	Steel filler		
Features	Solvent resistance		
	Machinable		
	Adhesiveness		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
Uses	Metal repair materials		
	Fill application		
	Bonding		
Appearance	Dark gray		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.20	g/cm ³	
Specific Volume	0.441	cm ³ /g	
Solid content-by Volume	100	%	
Temperature Resistance - Dry	93	°C	
Tensile Shear Adhesion	14.0	MPa	ASTM D1002
Molding Shrinkage - Flow	0.060	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5170	MPa	ASTM D638
Flexural Strength	53.0	MPa	ASTM D790
Compressive Strength	71.7	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method

CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	1.1	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	1.2	kV/mm	ASTM D149
Dielectric Constant	35.0		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			

Mixing ratio by weight: 1.7

Component a

Mixing ratio by capacity: 1.0

Mixing ratio by weight: 1.0

Component B

Mixing ratio by capacity: 1.0

Pot Life (24°C)	5.0	min
-----------------	-----	-----

Additional Information	Nominal Value	Unit	Test Method
------------------------	---------------	------	-------------

Cured 7 days @ 75°F

Uncured Properties	Nominal Value	Unit	Test Method
--------------------	---------------	------	-------------

Curing Time	1.0	hr
-------------	-----	----

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT