

DEVCON 14167-NC 快固型複合材料冷焊劑是美國得復康公司 OEM 膠粘劑的一種。

是一種多用途的甲基丙烯酸結構膠，用於金屬外殼組裝專用膠，粘接熱塑，熱固性複合材料，固化迅速，緊固時間短，有超強的耐沖擊和抗疲勞性能，並可耐-40 攝氏度的低溫，是電子類產品金屬外殼組裝專用膠。

主要參數如下：

顏色：青綠黑

混合比例：10：1

操作時間*1：4~8 分鐘

固定時間*2：10~15 分鐘

固化時間：3/4~1 小時

剝離強度 N/cm：105~114

沖擊強度 J/m：1174

最高工作溫度°C 乾燥環境：-40~121

包裝規格：50ML/支



型號	14167NC	粘台材料類型	塑料類、金屬類
品牌	devcon	樹脂膠的分類	環氧樹脂膠
熱熔膠類型	其他熱熔膠	剪切強度	37 (MPa)
有效物質≥	90 (%)	活性使用期	5 (min)
工作溫度	85 (°C)	保質期	12 (個月)
執行標準	9001	CAS	100



Composite Welder FS

Description: An advanced non-conductive two-part methacrylate adhesive designed for the structural bonding of various electronic assemblies. In addition, Composite Welder FS does a superb job of bonding of metals without primers, and engineered thermoplastics and composite assemblies with little to no surface preparation. Combined at a 10:1 ratio by volume. Composite Welder FS has a working time of approximately 3-5 minutes and achieves a handling strength of 50 psi in approximately 8-12 minutes on polycarbonate. This product provides a unique combination of high strength, excellent fatigue endurance, outstanding impact resistance, and superior toughness.

Intended Use: Bonds steel furniture, speaker magnets, and dissimilar substrates. Bonds FRP/GRP/SMC, gel coat, honeycomb painted and plated metals (with primer), phenolics, polycarbonate, PVC polyesters, urethanes and vinyl esters along with ceramics.

Product features:
 Fast cure at room temp.
 Self-priming to metals
 High toughness
 High strength
 Little to no surface preparation

Typical Technical data should be considered representative or typical only and should not be used for specification purpose

Physical

Properties:

Cured 7 days@75° F

Adhesive Tensile Lap Shear[Al]	2,100 psi(14.2MPa)
Adhesive Tensile Lap Shear[ABS]	880 psi(6.1MPa, SF)
Adhesive Tensile Lap Shear[PC]	1,500 psi(10.3MPa, SF, CF)
Adhesive Tensile Lap Shear @ 180°F (82°C)[Al]	1,000 psi(6.8MPa, CF)
Gap Fill	0.25 in.(6.4mm)
Impact Resistance	22ft.lb./in.
Shore Hardness	74 Shore D
Solids by Volume	100%
Tpeel	42 lbf/inch, on Al(CF)
Electric Conductivity	Non-conductive

Uncured

Color	Blue/Green
Fixture Time	About 8-12 min@75° F
Flashpoint	51° F
Full Cure	24 hours
Functional Cure	3/4-1 hrs
Mix Ratio by Volume	10:1
Mix Ratio by Weight	8.8:1
Mixed Density	8.10 lbs/gal (0.97gm/cc)
Weight	Adhesive: 8.0lbs./gal.(0.96g/cc); Activator: 9.12lbs./gal.(1.10g/cc)
Mixed Viscosity	About 100,000-130,000 cps
Viscosity	Adhesive: 100,000 -130,000cps;

TEST CONDUCTED

Adhesive Tensile Shear ASTM D 1002
 Cured Hardness Shore D ASTM D 2240
 T-Peel Strength ASTM D 1876
 Impact Resistance ASTM D 950

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Activator: 15,000-35,000cps

Service Temperature

-40° F to 250° F

Working Time

3-5 min.@75° F

Surface

Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt, or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and optimize the bond strength.

Preparation:

Mixing

---- Proper homogenous mixing of resin and hardener is essential for the curing and development of stated strengths.

Instructions:

50 ML CARTRIDGES

1. Attach cartridge to 50ml manual gun or other dispensing systems [manual or pneumatic].
2. Open tip.
3. Burp cartridge by squeezing out some material until both sides are uniform.
4. Attach mix nozzle to end of cartridge.
5. Apply to substrate.

Application

1. Apply mixed product directly to one surface in an even film or as a bead.

Instructions:

2. Assemble with mating part within recommended working time.
3. Apply firm pressure between mating parts to minimize any gap and ensure good contact (a small fillet of product should flow out the edges to display adequate gap fill).
4. Bond line thickness of mixed adhesive should be @ .030" for optimum adhesion.

For very large gaps:

1. Apply product to both surfaces.
2. Spread to cover entire area OR make a bead pattern to allow flow throughout the joint.

Let bonded assemblies stand for recommended functional cure time prior to handling.

ADDITIONAL PRODUCT INFORMATION:

- Can withstand processing forces
- Do not drop, shock load, or heavily load
- Intermittent exposure to temperatures above 250°F do not reduce performance characteristics

Storage:

Store between 55°F and 75°F. Continuous storage above 75°F reduces the shelf life of the materials. Prolonged exposure above 100°F quickly diminishes the product's reactivity, and should be avoided. Shelf life can be extended by refrigeration between 45°F and 55°F. DO NOT FREEZE.

Compliance:

Meets UL 746C Polymeric Adhesive Systems, Electrical Equipment-Component
 RoHS & Halogen Free
 SVHC Certification (REACH)

Chemical

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F

Resistance:

Acetic (Dilute) 10%	Very good
Ammonia	Very good
Cutting Oil	Excellent
Glycols/Antifreeze	Excellent

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Hydrochloric 10%	Very good
Mineral Spirits	Excellent
Motor Oil	Excellent
Sodium Hydroxide 10%	Very good
Sulfuric 10%	Very good

Precautions: Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

For technical assistance, please call 1-800-933-8266

FOR INDUSTRIAL USE ONLY

Warranty: Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer: All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.

Order Information: **14167-NC-50** **50ml cartridge**