

铝填充快速环氧粘合剂



铝填充，膏状，可填补缝隙，固化迅速，耐冲击，剥离强度高

WEICON 铝填充快速环氧粘合剂是一款几乎无气味的双组份环氧树脂粘合剂。它能够在室温环境下迅速固化且几乎无收缩。该产品固化后可机械加工（锉、钻、铣）。它可以填补裂缝，高粘度不滴垂，具有极高的拉伸、剪切及剥离强度。

铝填充快速粘合剂尤其适用于铝和其他轻金属的粘接。它可以填补铝质外壳的裂缝和孔隙，作为轻金属的修复材料使用。

为了让胶水发挥其最佳性能，使用前请对待粘接的物体表面进行清洁、脱脂及干燥处理。打磨材料表面能有效增加胶水的附着力。

技术参数

| | |
|----------------------------|------------------------|
| 基础成分 | 环氧树脂，铝填充 |
| 质地 | 膏状，可填补裂缝 |
| 颜色 | 铝 |
| 重量混合比例（树脂/固化剂） | 1:1 |
| 混合物密度 | 1.23 g/cm ³ |
| 温度为+20°C时的混合物密度 | 125.000 mPa·s |
| 最大粘接缝隙 | 4 mm |
| 操作温度 | +10 至 +30 °C |
| 固化温度 | +6 至 +40 °C |
| 温度为+20°C、混合物重量为10g时的可操作时间 | 4-5 分钟 |
| 达到初始强度（35%强度）所需时间 | 25 分钟 |
| 达到机械强度（50%强度）所需时间 | 2 h |
| 达到最终强度（100%强度）所需时间 | 24 h |
| 依据 DIN EN 1465，纯环氧树脂的平均强度为 | |
| 压力 | 8 Mpa |
| 拉伸 | 34 Mpa |
| 折弯 | 58 Mpa |
| 弹性模量 | 4.000 - 4.500 Mpa |
| 邵氏硬度 D | 45 |

提示
本资料中列出的所有产品，其参数和建议是我们在实验室的测试结果及经验总结，不得被视为对产品特性的保证。由于每一个用的实际应用情况并不在我们的认知、控制及责任范围内，我们对这些信息并不承担任何义务。我们保证我们的产品符合并遵守我们销售条款中承诺的高品质、无瑕疵的要求。我们建议用户通过自行试验来论证其希望选用的产品是否完全符合预期。因用户未遵照指定的操作方法使用产品而造成损失的情况，用户将独自承担全部责任。

依据 DIN EN 1465，平均拉伸剪切强度为

| | |
|--------------|-------------------------|
| 钢质表面 喷砂处理 | 20 N/mm ² |
| 铝质表面 喷砂处理 | 19 N/mm ² |
| 硬质PVC表面 粗糙处理 | 11 N/mm ² |
| 线性收缩率 | 0,3 % |
| 耐温性 | -50 至 +120 短时可达 +150 °C |

表面预处理

为确保粘接效果，待粘接的物体表面需干燥、清洁（可使用

操作

直接将铝填充快速环氧粘合剂挤出胶瓶即可使用。最初挤出的数厘米胶水

应弃置。将挤出的胶水均匀搅拌，快速涂抹在待粘接的物体表面，随后即刻进行粘接。

储藏

在室内恒温+20°C、干燥且未拆封的情况下，WEICON环氧树脂粘合剂可

存放至少18个月。避免阳光直射。未遵循说明书指示，保存期限将缩

短至6个月。环氧树脂很容易在低于5°C情况下结晶。温度大范围变化会加重结晶，冬季运输过程中经常出现这种状况。尽管这些影响可以通过加热产品至最高50°C（禁止明火）来缓解，但这对产品的操作、固化和技术特性仍会产生负面影响。WEICON环氧树脂粘合剂的基础树脂成分（双酚A和F）经过精心配比，能有效减少特殊环境中结晶现象的产生。

安全与健康

使用WEICON产品时，需注意产品的物理性、安全性、毒性、生态性的详细参数以及我们EG材料安全数据表（www.weicon.com）的具体信息。

包装

10552024 铝填充快速环氧粘合剂 24 ml

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Aluminium Minute Adhesive



Highly-filled, paste-like, gap-filling, fast-curing, high peel and impact strength

WEICON Aluminium Minute Adhesive is an odourless, two-component epoxy adhesive filled with aluminium. It cures fast at room temperature and practically without shrinkage. After curing, the adhesive can be machined (filing, drilling, milling). Aluminium Minute Adhesive is gap-filling and non-dripping (thixotropic) and shows very high tensile, impact and peel strength.

The adhesive is particularly suitable for bonding aluminium and other light metals. It can be used for filling cracks and holes on aluminium housings, for example, and for repairing light alloy wheels.

In order to achieve optimal adhesion, the bonding surfaces should be dry and free from grease or soilings. Scraping or sanding the surfaces before cleaning additionally improves adhesion.

Technical Data

| | |
|------------------------------------------------------------------|----------------------------|
| Composition | epoxy resin, highly filled |
| Composition | paste-like, gap-filling |
| Colour | aluminium |
| Mixing ratio by weight (Resin / Hardener) | 1:1 |
| Density of the mixture | 1.23 g/cm ³ |
| Viscosity of the mixture at 20°C (+68°F) | 300.000 mPa·s |
| Adhesive gap bridging up to max. | 4 mm |
| Processing temperature | +10 to +30 °C |
| Curing temperature | +6 to +40 °C |
| Pot-life at 20°C (+68°F) for 10ml material | 4-5 min. |
| Handling strength (35% strength) after | 25 min. |
| Capable of bearing mechanical loads (50% strength) after | 2 h |
| Final strength (100%) after | 24 h |
| Medium strength of the pure epoxy resin according to DIN EN 1465 | |
| Pressure | 8 Mpa |

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

| | |
|---------------------------------------------------|-----------------------------------------------------------------------|
| Pull | 34 Mpa |
| Bending | 58 Mpa |
| E-Modul | 4.000 - 4.500 Mpa |
| Shore hardness D | 45 |
| Medium shear strength according to DIN EN 1465 at | |
| Steel sand blasted | 20 N/mm ² |
| Alu sandblasted | 19 N/mm ² |
| PVC hard-roughened | 11 N/mm ² |
| Linear shrinkage | 0,3 % |
| Temperature resistance | -50 to + 120 (-58°F bis + 248°F) short-term up to +150 (+302°F) °C |

Surface pre-treatment

Clean and dry bonding surfaces are essential for flawless adhesive bonding (e.g. cleaning and degreasing with WEICON Surface Cleaner).

Processing

WEICON Aluminium Minute Adhesive can be processed straight from the double cartridge. Dismiss the first centimetre of the adhesive bead. Mix product thoroughly. Apply adhesive to the bonding surface quickly. Then join both bonding surfaces immediately.

Storage

When stored in unopened condition in a dry place at constant room temperature of approx. +20°C, WEICON Epoxy Adhesives have a shelf life of at least 18 months. Protect from direct sunlight. In case of non-observance of these storage instructions, the shelf life is reduced to 6 months. In general, epoxy resins tend to crystallise at temperatures below +5°C. This effect is increased by large temperature fluctuations, e.g. during transport especially in the winter months. This has a negative impact on processing, curing and technical data, it can, however, be reversed by heating the product (up to max. +50°C, no open flame). In WEICON Epoxy Adhesives, crystallisation is reduced by the careful choice and combination of base resins (bisphenol A and F).

Safety and health

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes:

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