

Flex+bond®



高弹性、高强度

WEICON Flex+Bond强度高、具永久弹性。其耐温范围为-40至90°C，湿润时可涂漆、固化后可研磨，同时还具有突出的耐老化性和良好的抗紫外线能力。它能够抵抗淡水和咸水，不含硅、异氰酸酯、卤素或溶剂。

WEICON Flex+Bond通过欧洲食品级认证 (ISEGA)，能够用于食品行业。该系列产品能够粘接几乎所有材质，如金属、木材、塑料、玻璃及陶瓷等；同材及异材均可粘接。



技术参数

基础成分	单组份聚氧化丙烯
密度	1,44 g/cm ³
粘度	膏状
垂流 (依据 ASTM D 2202)	1 mm
操作温度	+5 至 +40 °C
固化方式	湿气固化
固化条件	+5至+40°C温度环境及30%至95%相对空气湿度
表干时间*	25 分钟
固化速度 (首24个小时)	2 -3 mm
体积变化(依据 DIN 52451)	-1 %
最大粘接缝隙	5 mm
最大缝隙宽度	25 mm
保存期限 (+5°C 至 +25°C)	12 个月
邵氏硬度 A (依据 DIN 53505 / ASTM D 2240) ± 5	42
断裂伸长率(依据 DIN 53504/ASTM D412)	650 %
粘合剂抗拉强度	3,3 N/mm ²
平均拉伸剪切强度(依据 DIN EN 1465/ASTM D 1002)	2,1 N/mm ²
断裂抗性(依据 DIN 53515/ASTM D 1002)	20 N/mm ²
形变极限	15 %
是否可涂漆 (湿涂)	nur "nass ins nass" spätestens innerhalb von 3 h
可燃性等级 (DIN 4102)	B 2
耐温性	-40 至 +90 °C
IMPA 编码	81 52 87

提示
本资料中列出的所有产品，其参数和建议是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。

*50%空气湿度和+23°C环境温度下的测试结果

表面预处理

待粘接的物体表面需清洁、无油脂。大多数污垢（如油、脂、粉尘、污渍等）都能用WEICON表面清洁剂除去。针对严重污染的金属表面，我们推荐使用WEICON清洁剂S；针对老化的油漆或胶水残留物，我们建议使用WEICON密封胶去除剂。多数材料都能够很好地进行同材及异材粘接。针对少数特殊材料或极端工况，我们建议在涂胶之前先使用底漆进行预处理。详细说明请参见底漆选型表。使用机械方式对待粘接的表面进行预处理（如研磨或喷砂），能够大大提升粘接效果。

操作

管状包装的操作

手动挤压瓶身，使用后即刻将瓶口密封。胶水开封后需尽快使用完毕。

压力瓶装的操作

拔去瓶盖。依据挤出胶水时所需的胶水流量，可将手柄于Min和Max之间左右调整。通过按压手柄便可将胶水轻松挤出。若将手柄调转至Min，则胶嘴会自动闭锁，不再流胶。

粘接

为确保最佳的粘接效果，需在涂上胶水的材料表面形成第一层薄膜之前，将粘接部件进行接合。

储藏

在未开封且存放于正常环境（23°C，50%相对湿度）的情况下，WEICON单组份弹性密封胶的保质期为12个月。

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

13350085	Flex+bond® 85 ml 白色
13351085	Flex+bond® 85 ml 灰色
13352085	Flex+bond® 85 ml 黑色
13353085	Flex+bond® 85 ml 透明

产品配件

13955072	Press Pack Dosing Tip,
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Flex+bond®



elastic strong adhesion

WEICON Flex+bond is strong, permanently elastic, temperature resistant from -40°C to +90°C (-40°F to +194°F), weather resistant, resistant to UV rays, overpaintable (wet in wet), sandable, and resistant to ageing and salt water. It is free of silicone, isocyanate, halogens and solvents. WEICON Flex+bond has an ISEGA certificate and can be used as an adhesive in foodstuff technology.

WEICON Flex+bond can be used to bond nearly all materials to themselves and among each other such as metal, wood, plastic, glass, and ceramics.



Technical Data

Base	1 C.-Polyoxypropylener
density	1,44 g/cm³
Viscosity adhesive	paste
Stability/Run-off (ASTM D 222)	1 mm
Processing temperature	+5 to +40 °C
Cure type	By humidity
Curing condition	+5 to +40°C and 30% to 95% rel. humidity
Skin-overtime*	25 min.
Curing speed (first 24h)	2 -3 mm
Volume change (DIN 52451)	-1 %
Gap filling up to max.	5 mm
Gap width up to max.	25 mm
Shelf life (+5°C to +25°C / +41°F to +77°F)	12 months
Shore A hardness (DIN 5355 / ASTM D 224) ± 5	42
Elongation at break (DIN 53504/ASTM D 2240) ± 5	650 %
Tensile strength of pure adhesive and sealant	3,3 N/mm²
Average tensile shear strength (DIN EN 1465/ ASTM D 12)	2,1 N/mm²
Tear strength (DIN 53515/ASTM D 1002)	20 N/mm²
Movement capacity max.	15 %
Overpaintable (liquid paint) only „wet in wet“, within 3 hrs. at the latest after material app	
Building material category (DIN 412)	B 2

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.

Temperature resistance	-40 to +90 °C
IMPA-Code	81 52 87

*Measured at 50% relative air humidity and +23°C

Surface pre-treatment

The surfaces must be clean and free of grease. Many surface contaminants, e.g. oil, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend WEICON Cleaner Spray S; WEICON Sealant and Adhesive Remover is suitable for removing old paint or adhesive residues. Most materials can be bonded well to themselves and among each other. For certain materials or extreme requirements, we recommend the use of an adhesion agent (primer). Detailed information on this subject is contained in the primer selection table. A mechanical surface pre-treatment, e.g. sanding or sand-blasting, can considerably improve the adhesion.

Processing

Processing tube

Squeeze out by hand, close tube again immediately after use, opened tubes should be used up as quickly as possible.

Processing press pack

Remove original closure. Regulate discharge by smooth turning of the cap from min. to max. Press the lever and process the product. After having turned the cap into the “min.” position the valve closes automatically and the product flow is stopped.

Joining the parts to be bonded

To ensure optimal wetting, the parts must be joined before the first skin has been formed on the adhesive (skin-overtime).

Storage

When unopened and stored at room temperature (+23°C and 50 % rel. humidity), WEICON elastic one-component adhesives and sealants have a shelf life of 12 months.

Safety and health

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

Available sizes:

13350085	Flex+bond® 85 ml white
13351085	Flex+bond® 85 ml grey
13352085	Flex+bond® 85 ml black
13353085	Flex+bond® 85 ml transparent

Accessories:

13955072	Press Pack Dosing Tip,
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