

Casco[®] Cascol Polyurethane

ONE-COMPONENT SOLVENT FREE ADHESIVE

DESCRIPTION

One-component solvent free adhesive, which cures under the influence of moisture in the air and from the materials being glued together.

USES

Is mainly formulated to glue wood to wood, wood to metal and different plastic materials.

CHARACTERISTICS / ADVANTAGES

- Almost transparent glue line
- High heat resistance according to WATT 91
- Balanced open- and pressing time acceptable for both professionals and do it yourself
- Fulfills EN 204 class D4
- Good extended storage stability

PRODUCT INFORMATION

Composition	Diphenylmethane-diisocyanate (mixture of isomers)
Packaging	750ml, 300ml and 100ml plastic bottle
Colour	Clear yellowish
Shelf life	At least one year in closed packages at dry and cool conditions.
Storage conditions	Should not be exposed to temperatures below +5 °C or above +30 °C.
Density	Approx. 1230 kg/m ³
Solid content by weight	100 %
Volatile organic compound (VOC) content	None
Consistency	Liquid

TECHNICAL INFORMATION

Temperature Resistance	Heat resistance up to +100°C according to WATT 91
Service Temperature	-20 °C - +100 °C.
Resistance to moisture	The glue line is moisture resistant and semi-rigid. Fulfills EN 204 Class D4

APPLICATION INFORMATION

Consumption	100 – 300 g/m ² dependent on material combination.												
Product Temperature	Down to +5 °C, normally 15 – 25 °C, up to 90 °C												
Substrate Moisture Content	Moisture content of wood: 5 - 14 %, preferably 7 - 10 %												
Curing Time	Complete curing to full strength is normally achieved after about 24 hours.												
Open Time	Application time at 20°C/65% RH and depending on temperature and RH: Open assembly time is max. 10-15 min. Closed assembly time: Min. 5 minutes to max. 25 min.												
Pressing Time	The adhesive joint has to be fixed with high pressure. Pressure time, 20 °C: The adhesive cures under the influence of moisture and is therefore depending on moisture content in the air and in the materials. At high RH the pressing time will be shortened and at low RH prolonged. The temperature is also of great importance to the curing. Example of pressing time Pine/pine with 200 g/m ² and moisture contents of 12 % in the wood. <table border="1"><thead><tr><th>Temperature</th><th>RH</th><th>Time</th></tr></thead><tbody><tr><td>15 °C</td><td>40 %</td><td>8 hours</td></tr><tr><td>23 °C</td><td>50 %</td><td>4 hours</td></tr><tr><td>30 °C</td><td>65 %</td><td>2 hours</td></tr></tbody></table>	Temperature	RH	Time	15 °C	40 %	8 hours	23 °C	50 %	4 hours	30 °C	65 %	2 hours
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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Joint interface must be clean, dry and free from oils, loose aggregates, laitance, release agents, waterproofing and other contaminants.

A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surfaces.

DIRECTIONS FOR USE

Cascol Polyurethane 1809 provides almost colorless and water resistant glue joint; normally invisible. During the curing process carbon oxide is created, high pressure is therefore of great importance to secure good adhesion.

The adhesive is not intended for supporting wood constructions.

Apply adhesive directly from the bottle or with toothed trowel, roller or other suitable tool.

When gluing two non-porous materials to each other, it is advisable to moisten the surface already applied with adhesive by means of a spray-bottle containing water.

Apply high pressure to secure good adhesion.

Close the package immediately after adhesive application since the product easily absorbs moisture from the air thus influencing the storage time.

APPLICATION METHOD / TOOLS

Toothed towel, brush or roller

CLEANING OF EQUIPMENT

When working with adhesives, cleanliness must be observed. Therefore always work carefully and systematically in order to avoid unnecessary spillage.

In case of skin contact, wash with soap and water.

Contains isocyanate which by some persons might cause allergic reactions.

Maintain good ventilation and use protective gloves to prevent skin contact.

Tools with not cured product can be cleaned with acetone. Do not use compressed air for blowing clean. Cured adhesive must be removed mechanically.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

PRODUCT DATA SHEET

Casco® Cascol Polyurethane

March 2020, Version 02.01

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LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Casco products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or on the website www.casco.eu.

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