

COSMOPLAST MS 460

1-component-MS-adhesive

APPLICATION

COSMOPLAST MS 460 is a new adhesive with excellent product properties.

COSMOPLAST MS 460 is especially used in the vehicle engineering and for vehicle superstructures, because of its wide adhesion spectrum. – For professional use by instructed personnel only.

COSMOPLAST MS 460 is used in the wood/aluminium-window- and door-construction for the bonding of aluminium corner angles (anodized or powder-coated), as well as for the bonding of sandwich elements for façades (cassettes). – For professional use by instructed personnel only.

COSMOPLAST MS 460 has an excellent bonding strength on different metals, wood materials, duro- and thermoplastics, construction materials, ceramics and glass, provided the surfaces are pretreated accordingly.

COSMOPLAST MS 460 can be used near by foodstuffs, e.g. for the bonding in the wall- and floor zones, in companies finishing or processing foodstuffs, tested by **ISEGA, Aschaffenburg (declaration of no objection no. 26499 U 08)**.

COSMOPLAST MS 460 can be overpainted when it is fresh as well as after it has hardened up.

COSMOPLAST MS 460 white has an elastic adhesive joint after it has hardened up and possesses a good colour stability against ultraviolet and a good weather resistance.

COSMOPLAST MS 460 is **silicone and solvent-free**.

TECHNICAL DATA

| | | | |
|--|--|------------------------------|--|
| BASIS | 1-component moisture cross-linked MS-polymer | | |
| COLOUR | of hardened up film | depending on the colour | |
| FILM PROPERTY | of hardened up film | elastic | |
| SHORE-HARDNESS | of at +20°C hardened up film according to DIN 53505 white and other colours transparent | approx. approx. | 60 Shore-A 40 Shore-A |
| VISCOSITY | at +20°C | medium viscosity –paste-like | |
| DENSITY | according to EN 542 at +20°C white and other colours transparent | approx. approx. | 1,53 g/cm ³ 1,01 g/cm ³ |
| FILM FORMATION TIME - dry | at +20°C, 50%rel. air humidity, application quantity 500µm-PE/PVC | approx. | 10 min |
| FILM FORMATION TIME - wet | at +20°C, 50%rel. air humidity, Application quantity 500µm-PE/PVC | approx. | 4 min |
| FINAL SETTING TIME | at +20°C, 50%rel. air humidity 2mm adhesive in caterpillar-shape | approx. | 24 h |
| MINIMUM TEMPERATURE FOR APPLICATION | | from | +5 °C |

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WORKING INSTRUCTIONS

COSMOPLAST MS 460 is applied, directly from the cartridge, onto just one side of the surfaces to be bonded, which must be dry and free from dust and grease. When bonding non-absorbent materials with each other, the applied adhesive has to be additionally „finely sprayed“ with water in order to obtain the complete hardening. Directly after this, the work pieces have to be joined together, whereby attention should be paid that the reaction humidity is mixed with the adhesive in the glue joint, e.g. when rubbing/displacing the work pieces against each other. After joining, the materials are fixed/pressed together until functional hardness has been achieved; the adhesive does not swell (foam) during the setting process.

Temperature rating after hardening from -40°C to +100°C, at short-term up to +160°C.

- * Bondings of materials with different linear expansion must be evaluated regarding their long-time performance particularly when loading in application areas with changing temperatures.
- * A direct contact to foodstuffs is not envisaged.
- * The adhesive properties of different colours, also transparent, may be different.
- * **COSMOPLAST MS 460 transparent** is not permanent UV resistant.

Please observe the technical information “Metal bonding”

FILM FORMATION TIME, as well as the individual PRESS TIMES, can only be exactly found out through own tests, as they are strongly affected by material, temperature, application quantity, air- and material humidity, thickness of the adhesive film, pressure, and other criteria. The user should provide adequate security additions to the given approximate values.

CLEANING

The cleaning of not hardened up **COSMOPLAST MS 460** is made with **COSMOFEN 60**.

The cleaning of hardened up **COSMOPLAST MS 460** is usually only mechanically possible.

STORAGE

Store in tightly closed original casks, dry, at a temperature between +15°C and +25°C, without direct solar radiation.

Can be stored in unopened original casks for approx. 12 months.

CASK SIZE

290ml PE euro cartridge, dispatch unit: 12 pcs/box

600ml Alu/PE tubular bag, dispatch unit: 12 pcs/box

Standard on stock transparent and white, other colours and other cask sizes are available on request.

CLASSIFICATION

Information can be taken from the safety data sheet.

Our instructions for use, processing directives, product- or performance indications, as well as other technical statements are only general guidelines; they only describe the nature of our products (determined value at the production time) and their performance, but they give no guarantee in accordance with paragraph 443 of the BGB (Civil Code). Due to the variety of application purposes for each product, and due to a lot of different particular conditions (e. g. processing parameters, material properties, etc.), the user has to carry out his own individual qualifying tests. Our consultation in application technique, verbal and in writing, as well as with tests, is offered free of charge and is not legally binding.

These documents replace former issues