

Planamelt R

Hot melt spine glue, free of plasticizers

Typical Application

- Perfect-binding of catalogues, brochures, telephone directories, magazines etc. on common perfect-binding systems.
Side-gluing (please observe higher application temperature)
- In two-shot processes as primer or as top coat depending on application temperature.

Plasticizer-free hot melt adhesive for book spines with medium clamping effect and excellent adhesion to the sheet edges also on difficult materials like e.g. papers > 200 g/m².

Due to its special properties, **Planamelt R** can also be used as side glue.

The new polymer basis of **Planamelt R** offers various advantages compared to common EVA hot melt glues:

- improved adhesion to paper edges
- higher oxidation stability, resulting in reduced cleaning effort
- higher oil resistance
- significantly reduced odour
- improved heat and cold resistance
- significantly reduced glue consumption, ca. 20-60% due to lower application weight, depending on substrates and machine settings
- reduced process and storage costs by using one adhesive as spine and side glue

Technical Data

Specification Values

Viscosity * (Brookfield, DIN 53019, 170° C)	2,500 – 3,500 mPas
Softening Point (Mettler)	95 - 110 °C

*at date of production

Typical Technical Characteristics

Open time	medium to long
Setting time	medium
Color	colorless to slightly yellowish

Form of Delivery/Container

Granulate in 25 kg bags, further on demand

General Application Instructions

Processing

Suitable for nozzles, rollers and wheels.

Processing temperatures (measured on the rollers):

Side glue	170 – 180 °C
One shot	150 – 180 °C
Two shot as primer	150 – 180 °C
Two shot as top coat	150 – 160 °C
Inside premelter	10 – 20 °C lower

Conversion from standard spine adhesive to Planamelt R spine adhesive, cleaning of the application equipment

The adhesive Planamelt R has a very good cleaning function which induces an ejection of cracked and dissolved rests of old glue as well as other diverse contaminations of the equipment. Furthermore Planamelt R is incompatible with the usual EVA adhesives due to its new technology, therefore it is absolutely essential to avoid any mixtures of adhesive as these show a very bad gluing performance.

It is very important to carefully perform a pre-cleaning of the equipment, which can look like depicted on the picture.

The cleaning should only be effected once when changing from an EVA adhesive to Planamelt R. The cleaning effort is much less when using the Planamelt R adhesive instead of the EVA adhesive. The cleaning intervals can be reduced substantially as Planamelt R shows characteristics such as oxidation stability and self-cleaning capacities.



Basic-Checklist (it may vary according to equipment):

1. Deplete the premelter and dump the remaining adhesive of the adhesive basin.
2. Separate the hoses of the adhesive basin and fill the adhesive basin and the premelter with the granulate Planamelt R (prior to that close the drain valve), position the temperature to 170-180°C in the premelter, hose and adhesive basin.
3. After melting and reaching temperatures of over 130°C have the roller turn 10 minutes.
4. Dump the adhesive separately out of the adhesive basin via the drain valve and out of the premelter via the hoses. During this process control the condition of the equipment and the dumped melted mass. Scrape off mechanically the rest of the sediments in the adhesive basin and premelter by using a spatula made of plastic or wood to avoid any damage on the equipment.
5. Repeat point 3 and 4 as often as necessary until the machine is sufficiently clean and no mixture of adhesive is left.

Important: Rinse thoroughly with the fresh Planamelt R adhesive at least 2 times to guarantee a sufficient cleaning and to completely purge the old adhesive of the equipment.

6. Dismantle, control and if applicable clean the filters and sieves.
7. Connect hoses with the adhesive basin, effect the suggested machine settings and fill premelter with Planamelt R adhesive.

Claims, which can be traced back to an insufficient cleaning process of the system, will not be accepted.