

# Technical Information

## Safe-T-Melt 52 - 066



<b>Type of adhesive</b>	hotmelt on synthetic basis	
<b>Field of application</b>	Graphic Industry: Primer for catalogue production with two-shot system. Technomelt Q 3601 or Technomelt 53107W is used as top coat. Packaging: Bonding of coated materials, adhesion to PE, PVDC, PVC and Polyesterfilms.	
<b>Product specification</b>		<b>Test Method</b>
<b>Viscosity</b>	990 – 1.340 mPa.s at 160 °C	Brookfield, Thermosel, spindle 27
<b>Softening Point</b>	72 – 82 °C	R&B
<b>Properties</b>		
<b>Colour</b>	yellow	
<b>Setting Time</b>	short	
<b>Open Time</b>	medium	
<b>Processing</b>		
<b>Working Temperature</b>	160 - 180 °C, measured on roller	
<b>Application</b>	by means of roller, wheel and nozzle	
<b>Bonding properties and processing advice</b>	<p>Safe-T-Melt 52-066 is applied as primer in the two-shot-procedure with Technomelt Q 3601/Technomelt 53107W. Safe-T-Melt 52-066 optimizes the perfect binding in comparison with the one-shot-procedure. Safe-T-Melt 52-066 in connection with Technomelt Q 3601/Technomelt 53107W is suitable for perfect binding of most of the common papers and provides an excellent bonding strength. We recommend to test coated papers before starting production.</p> <p>Safe-T-Melt 52-066 is applied very thin on a dust free paper surface. The first application roller has to be strongly doctored and shall touch the book bloc slightly. A spinning roller removes the excessing material from the second roller leading to the fact that only the milling depths are filled with primer.</p>	

Technomelt Q 3601/Technomelt 53107W is applied in the second glue pot at conventional roller set-up with an application thickness of 0,5 - 1,0 mm. You can optimize the bonding strength of difficult-to-bond papers by an appropriate spine preparation (notches of 0,5 - 1,5 mm depth and distance of 5 - 10 mm) . The grinding depth of long fibrous papers may be less. The ideal coating and spine preparation depend to a great extent on the paper quality, size and weight of the specimen fibre, direction and cover respectively back lining material.

The optimum working temperature and consequently the viscosity of the hotmelt have to be adjusted to the working conditions, specially machine speed, application thickness and required open time.

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If only a small quantity of the hotmelt is required, and there are long machine standstills during a shift, the temperature in the pre-melt tank should be 30 - 40 °C below the working temperature in order to avoid charring.

For the same reason it is recommended not to pre-melt more adhesive than being used during a working day. Avoid overheating above the maximum working temperatures, since quality will suffer and the adhesive may char.

The addition of hotmelt in the melting tank has to be dosed in such a way that the temperature does not drop and the refill quantity corresponds with the usage. If the adhesive level in the melting tank drops the adhesive residues remaining on the walls of the tank could char due to overheating.

Also see "General Recommendations for the Processing of Hotmelts".

#### **Cleaning**

We recommend to use our cleaning agent V 1940 to clean the applicators and adhesive tanks. While working with the cleaning agent, please strictly observe the safety regulations.

For the cold cleaning of surface soilings on application equipment, conveyor belts or other machine parts Melt-O-Clean can be applied. Melt-O-Clean is based on natural resources and supplies the manual cleaning also in case of strong carbonisations. Before using Melt-O-Clean its suitability for lacquered or synthetic coated surfaces should be tested.

#### **Disposal**

see Safety Data Sheet

#### **Protective Measures**

see Safety Data Sheet

#### **Packaging**

pastilles

#### **Storage Conditions/ Shelf Life**

In closed original packaging and under normal storage conditions for at least 2 years from date of production without negative impact on quality.

The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials used as well as to varying working conditions beyond our control we strictly recommend to carry out intensive trials to test the suitability of our products with regard to the required processes and applications. We do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention.

Düsseldorf, April 2004

