

**BinderFalt****TDS No. 1.1****Technical Data Sheet**Issued: 14th March 2012

USES

- Production of clear or coloured asphalt
- City squares, car parks, pavements, bicycle lanes, danger zone markings, crossroads, tunnels, school playgrounds, shopping centres, private driveways

PERFORMANCE

- No specific equipment required (the coloured asphalt is manufactured in a traditional asphalt mixing plant)
- Suitable for small, medium or large worksites
- The BinderFalt solid packs allow for easy storage and transport, and facilitate handling
- Long shelf life
- No colour loss as binder only heated when needed
- No waste
- Very good resistance to cracking
- Good U.V. resistance
- Resists any mechanical cleaning method
- Excellent resistance to freeze/thaw cycles and to de-icing salt
- Economical, no loss

ASPHALT PRODUCTION PROCESS

- Materials must first be heated between 180° and 200°C
- The 10kg thermo-fusible bags containing the small BinderFalt packs are introduced into the mixer of the asphalt plant
- Mixing time must be at least 5 minutes to allow the packs to melt completely
- When dye is added to the clear bitumen, it must be incorporated after the BinderFalt and another 30 seconds must be added to the mixing time
- If the coloured asphalt is produced in a traditional black asphalt plant, check that the mixer and the storage tremies are clean. If necessary, make two blind patches (heat aggregate without binder)
- The choice of aggregates is very important and plays a decisive role in determining the asphalt's colour. We recommend using aggregates whose colour is as close as possible to the chosen coloured asphalt
- If you plan to add fillers or fines, first choose clear and limestone-type fillers. They must be inserted in the mixer last, once the asphalt is made, to avoid burning them, which could give a darker tint to the asphalt's colour

2 BinderFalt Clear Bitumen

- It is recommended to apply a clear emulsion primer on the surface before laying the BinderFalt asphalt to ensure good adhesion

- The asphalt's readiness of use is identical to that of traditional asphalt and varies according to the bitumen grade and the ambient temperature

PACKAGING

- 500gr. small packs grouped in 10 kg thermofusible bags
- 1.000 kg pallet

- Advised dosage according to the grading curve 5.2% to 6% in residual bitumen compared to the overall aggregate weight

- Bitumen maturity : 24 hours

Characteristics	Measure unit	BINDERFALT	Standards
Penetration (100 g, 5 s, 25°C)	0.1 mm	35-50	NF EN 1426
Ring & Ball softening point test	° C	50-58	NF EN 1427
FRAASS breaking point	° C	- 5	NF EN 12593
Ductility at 25°C	cm	100	NF EN 13589
Density at 25°C	g/cm ³	1.002	EN ISO 3838
Flash point (Cleveland)	> °C	230	EN ISO 2592
Elastic recovery (20 cm, 25°C, 30 min)	%	70	
Dynamic viscosity At 200 mPa At 2, 000 mPa At 30, 000 mPa	°C	180 125 85	



3 BinderFalt Clear Bitumen

ICI viscosity (internal MO) At 125°C At 150°C		16.8 5.3	
Heat mass loss (163°C, 5 h)	%	0.22	EN 12607-1
Remaining penetration after ageing	%	93	NF EN 1426
Softening point after ageing	%	+ 2	NF EN 1427
Residual bitumen in the binder	%	85	Coloured
Residual bitumen in the binder	%	100	Clear

- CE Marking
- Customs code 2715 000 00
- Labelling : none
- Must be stored in its sealed original packaging, between 5°C and 25°C
- Shelf life : 3 years