

Technical Data Sheet - KERABIT KB 100/50



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Product

Type Kerabit Modified Bitumen KB 100/50 is a hot-applied, elastic modified bitumen mass. This product contains bitumen and SBS elastomer. Mass does not contain any solvents or other dangerous substances.

Use For bonding modified bitumen membranes. For applying an insulating solution with a brush on concrete surfaces, such as bridge edge beams. For applying an insulating solution on bridge steel decks with a brush before the mastic insulation is applied. Can also be used in the sealing of horizontal seams and cracks. Adheres well on clean asphalt, concrete and metal surfaces.

Instructions for use

Kerabit Modified Bitumen KB 100/50 is heated in a bitumen boiler equipped with a stirrer and a thermostatic control unit. The boiler must have a blender to ensure the constant temperature and homogeneity of bitumen.

The mixing and application temperature must be + 200...220 °C.

In the mixing phase, care must be taken to prevent modified bitumen from being overheated locally, as that would damage the elastomer.

The bitumen is stirred in the boiler at all times to prevent separation.

Surfaces must be dry, clean and free from oil, dust or release agents.

It is recommended to use Kerabit KBL 20/100 bitumen primer to improve the mass adhesion. The solution must be completely dry before applying the mass.

Occupational safety and environmental protection

SDS
 For further information refer to product Safety Data Sheet.

PPE
 Personal Protection Equipment (PPE) should be used when working with bitumen and should cover all parts of exposed skin to avoid direct contact.

First aid in case of burns
 When an accident has occurred, the affected area of the body should be cooled as soon as possible to prevent the heat from causing further damage to the skin. The burn should be drenched in cold water for at least 10 minutes (skin) and at least 5 minutes (eyes). However, body hypothermia must be avoided. Never attempt to remove bitumen from burned areas.

Further treatment and medical care
 The bitumen layer will be firmly attached to the skin and removal should not be attempted unless carried out at a medical facility under the supervision of a doctor. The cold bitumen will form a waterproof, sterile layer over the burn, which will prevent the burn from drying out. If the bitumen is removed from the wound, there is the possibility that the skin will be damaged further, bringing with it the possibility of complications. Furthermore, by exposing a second degree burn in order to treat it, there is the possibility that infection or drying out will make the wound deeper.

Extinguishing bitumen fires

Never use a water jet to extinguish the bitumen fires. Small fires can be put out with a blanket of foam, dry powder or carbon dioxide extinguishers.

Waste disposal

Bitumen itself is not regarded as a hazardous waste. Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

CE- marking				
Standard	Bitumen and bituminous binders. Specification framework for polymer modified bitumens			
Certificate of factory production control	0809-CPR-1034			
Declaration of performance	010.CPR.KB			
AVCP- class	2+			
Characteristic	Method	Unit	Value	Class
Penetration at 25 °C	EN 1426	0,1 mm	25- 55	3
Softening Point*	EN 1427	°C	≥ 80	2
Force ductility 10 °C	EN 13589	J/cm ²	≥ 3	7
Force ductility 5 °C	EN 13589	J/cm ²	≥ 33	7
Resistance to hardening	EN 12607-1			
- Change of mass, %	EN 12607-1	%	≤ 0,3	2
- Retained Penetration, %	EN 1426	%	≥ 60	7
- Increase in softening point, °C	EN 1427	°C	≤ 8	2
- Elastic recovery 10 °C, %	EN 13398	%	≥ 85	1
Flash Point, °C	EN ISO 2592	°C	≥ 250	2
Fraass Breaking Point, °C	EN 12593	°C	≤ -28	10
Elastic recovery 10 °C	EN 13398	%	≥ 90	1
Elastic recovery 25 °C	EN 13398	%	≥ 90	11
Storage stability	EN 13399			
- Difference in penetration, 0,1 mm ¹⁾	EN 1426	0,1 mm	≤ 19	4
- Difference in softening point, °C	EN 1427	°C	≤ 5	2
Plasticity range	5.2.8.4	°C	132	1
Density	EN 13880-1	kg/m ³	n.1000	-

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* Softening Point, C° ≥ 95°C

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