



SEAL  **FLEX**® **SC**

SEAL  **FILL**®

**membranes, bond coats
and sealants**

SEAL  **MAT**®

advanced pavement products and systems for asphalt and concrete pavements

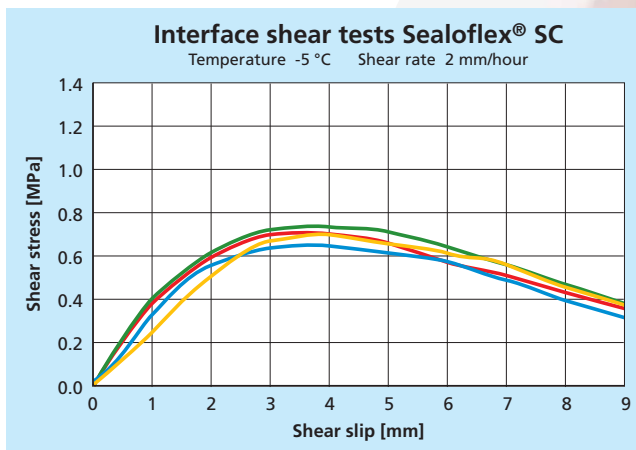
a range of special products and services for highway, airport and industrial pavements



Sealoflex® SC and Sealofill® form a unique range of polymer modified bitumens. They have been specifically developed for use in the maintenance and construction of asphalt and concrete pavements, including the formation of impermeable structures.

The products are characterized by:

- reduced temperature susceptibility
- high elasticity
- high tensile strength and toughness (ductility)
- excellent adhesion
- improved resistance to fuels and chemicals
- high resistance to ageing
- excellent creep resistance.



Stress absorbing membrane interlayers (SAMI)

A SAMI constructed with Sealoflex® SC reduces or prevents the reflection of cracks and joints into a new asphalt overlay and ensures waterproof protection of the underlying pavement for a significant period of time. Before applying a new asphalt layer, 2.0 to 3.0 kg/m² of Sealoflex® SC is sprayed on the surface that has to be treated. The quantity required depends on the severity and the size of the cracks, the type and thickness of the asphalt overlay, the traffic intensity and the climatic conditions. Crushed aggregate is spread over the treated surface in such a way that only 50% of the surface is covered, thus ensuring that construction traffic can pass over the surface without sticking to the SAMI.

Asphalt bond coats and bond coats for glass fiber reinforcement (GridSeal®)

When installing a bond coat or GridSeal® a quantity of 1.0 to 2.0 kg/m² of Sealoflex® SC is sprayed on the existing pavement or on the reinforcement and treated with crushed aggregate. After this, one or more hot-mix asphalt layers are applied. Application of



Sealoflex® SC provides an extremely good, tough, visco-elastic bond between the existing pavement and the new asphalt layer, while ensuring waterproofed protection of the underlying pavement structure for a considerable period of time. The GridSeal® system also provides durable anchorage for the reinforcement, resulting in the highest protection against reflective cracking from underlying cracks and joints.



Waterproof membranes for concrete structures

Sealoflex® SC-6 is a modified bitumen with a high polymer content. It has been specially developed for waterproofing of concrete structures, such as bridges, viaducts and tunnels, that are to be overlaid with asphalt. It can be applied on newly constructed as well as existing structures at a rate of 2.5 to 3.0 kg/m². Before applying Sealoflex® SC-6 a special primer has to be used, but thereafter the application procedure is the same as for a SAMI.



Fuel and chemical resistant membranes for airport pavements and impermeable structures

Sealoflex® SC-6 (JR) has the extra advantage of improved resistance to fuels and chemicals. It can be used for construction and maintenance of airport and other heavy duty pavements and for the construction and maintenance of impermeable asphalt and concrete structures. Rounded gravel is applied instead of sharp crushed aggregate.



Crack and joint sealants for asphalt and concrete pavements

Sealofill® is the trade mark of a group of hot applied, polymer modified crack and joint sealants.

Sealofill® A is used to seal (narrow) cracks in asphalt and concrete pavements, with a maximum width of 15 mm. Because of its good adhesion and high ductility, combined with a high elastic recovery, these products ensure impermeable protection of the cracks for a long period of time. To ensure good adhesion to concrete surfaces a special primer is used.

Sealofill® B and Sealofill® B (JR) are used to seal (wide) cracks, joints and grooves in asphalt and concrete pavements, with a minimum width of 10 mm. High ductility and elastic recovery as well as high strain to failure are important characteristics for this application. Their special composition makes it possible to use these products in

wider grooves without having problems of pick up by tires. It is also possible to apply Sealofill® B and Sealofill® B (JR) on steep slopes. To ensure good adhesion to concrete surfaces a special primer is used.



Fuel resistant joint sealants for airport pavements and for impermeable structures

Because Sealofill® B (JR) has improved resistance to fuels and chemicals, it is also suitable for construction and maintenance of joints in airport pavements, and for construction and maintenance of impermeable asphalt and concrete structures.



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