

Introduction

PHOENIX INTERNATIONAL A/S was founded in 1907 in Denmark and has more than 100 years of research and study experience covering arrays of bitumen and polymer-based products. The Company offers a vast range of products to the global market. Phoenix has been actively engaged in many international projects alongside international partners worldwide. One such cooperation is a joint-venture company with Shell South Africa called Bituguard. This joint-venture operates a plant in Bethlehem South Africa which offers advanced bitumen products to the African market. products also include road construction and construction products such as bitumen emulsions, oxidized bitumen and penetration bitumen, types of heat and cold polymer mastic for asphalt and concrete surfaces, interior and exterior acrylic paints, epoxy flooring and various types of waterproofing insulation.



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Mastic type	Application	Description
S-H/15	Asphalt surface	for sealing road expansion joints and repairing cracks for areas with temperate climates and hot summer
S-H/30	Asphalt surface	for sealing road expansion joints and repairing cracks for areas with temperate climates and cold winter
S-H/45	Asphalt surface	for sealing road expansion joints and repairing cracks for areas with temperate climates and relatively hot summer
S-H/90	Asphalt surface	To filling joints and cracks in asphalt pavement for areas with temperate climates and and relatively cold winter
S-H/18	Reservoirs	formulated especially for sealing expansion joint in horizontal surfaces
S-H/60	Reservoirs	formulated especially for sealing expansion joint in vertical surfaces
S-H/10	Concrete surface	for sealing the expansion joints of car parking and all types of concrete floor joints, executive joints, expansion and contraction of concrete coatings
S-H/100	Bridges	for sealing the expansion joints of bridges with 800% tensile
S-H/20	Water Canals	for sealing the expansion joints, contraction and execution of water transfer canals

Advantages of sealant mastics and materials used in water transfer canal, concrete flooring (concrete paving) and bridge expansion joint:

- High reversibility and flexibility
- Excellent adhesion to concrete surfaces and walls
- Increase the life of the expansion joint of the bridge and the concrete cover
- Stability against moisture and lack of flow and cracking due to changes in ambient temperature

Advantages of sealant mastics and materials used in the way:

- Increase the life of asphalt pavement
- Preventing water infiltration into infrastructure layers and preventing its destruction
- Stability against moisture and lack of flow and cracking due to changes in ambient temperature
- Excellent adhesion to asphalt surfaces and walls
- High reversibility and flexibility



Phoenixseal® S-H/20

Phoenixseal® S-H/20 is Single-Component Joint and Crack Sealants Polymeric hot applied Mastic. that is utilized for sealing the expansion joints, contraction and execution of water transfer canals.



Polymeric cold applied mastic® T/10

Phoenixseal® T/10 is based on SBS polymer-modified bitumen emulsion with water base and is supplied in paste form. This product is used to repair waterproofing cracks and repair cracks on the asphalt roof of the building.



Phoenixtape® PM/5

Phoenixtap® PM/5 polymeric bitumen adhesive tape is used to prevent and prevent cracks between old and new asphalt (asphalt staining) and also to reduce the cost of asphalt maintenance.

General information

Color	Black
Bitumen type	Polymer-modified bitumen
Density	1.1 - 1.2 kg/l
Softening Point	~ +96 °C
Penetration	~ 36 dmm
Cone Penetration	~ 28 dmm
Maximum heating temperature	185 °C
Mixture temperature	175 ± 5 °C
Temperature in the nuzzle	160 to 165 °C
Packaging	16 kg pack



Phoenixseal® S-H/18

Phoenixseal® S-H/18 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic. that are formulated especially for sealing expansion joint in horizontal surfaces.



Phoenixseal® S-H/60

Phoenixseal® S-H/60 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic. that are formulated especially for sealing expansion joint in vertical surfaces.



Phoenixseal® S-H/10

Phoenixseal® S-H/10 is Single-Component Joint and Crack Sealants Polymeric hot applied Mastic. that is utilized for sealing the expansion joints of car parking and all types of concrete floor joints, executive joints, expansion and contraction of concrete coatings.



Phoenixseal® S-H/100

Phoenixseal® S-H/100 is Single-Component Joint and Crack Sealants Polymeric hot applied Mastic. that is utilized for sealing the expansion joints of bridges with 800% tensile.



Phoenixseal® S-H/15

Phoenixseal® S-H/15 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic for areas with temperate climates and hot summers. that is utilized for sealing road expansion joints and repairing cracks.



Phoenixseal® S-H/30

Phoenixseal® S-H/30 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic for areas with cold winters. that is utilized for sealing road expansion joints and repairing cracks.



Phoenixseal® S-H/45

Phoenixseal® S-H/45 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic for areas with temperate climates and relatively hot summers. that is utilized for sealing road expansion joints and repairing cracks.



Phoenixseal® S-H/90

Phoenixseal® S-H/90 is Single-Component Joint and Crack Sealants Polymeric hot applied mastic for areas with temperate climates and relatively cold winters. that is utilized for sealing road expansion joints and repairing cracks.

Emulsion Type	Percentage of bitumen	Description
Tack Coat WK/8	50%	To impregnate the existing asphalt surface with bituminous materials and create adhesion with the new asphalt layer
Tack Coat WK/88	65%	To impregnate the existing asphalt surface with bituminous materials and create adhesion with the new asphalt layer
Tack Coat WK/86	40%	To impregnate the existing asphalt surface with bituminous materials and create adhesion with the new asphalt layer
Prime Coat WK/4	30%	Preparing the surface of the sandy road to spread the asphalt crust and facilitate the adhesion of the asphalt crust to the body of the road
Prime Coat WK/44	60%	Preparing the surface of the sandy road to spread the asphalt crust and facilitate the adhesion of the asphalt crust to the body of the road
Chip Seal WK/5	65%	To apply surface asphalt, especially on rural roads and low traffic
Fog Seal WK/6	30%	For repairing sand and baldness of the road and filling small cracks in asphalt surface
Fog Seal WK/66	60%	For repairing sand and baldness of the road and filling small cracks in asphalt surface
Road Mix WK/7	64%	To produce cold asphalt with a mixture of stone materials and bitumen

Phoenixfluid® (WK/86 · WK/88 · WK/8)

Tack coat emulsion (WK / 86, WK / 88, WK / 8) is used to impregnate existing asphalt surfaces with bituminous material and create adhesion with the new asphalt layer as a thin layer.

Phoenixfluid® (WK/4 · WK/44)

Prime coat emulsion (WK / 4, WK / 44) is done in order to prepare the sandy road surface for spreading asphalt crust, which is spread on the sandy road surface and penetrates into its pores and in addition to consolidating the sandy road surface, causes Facilitates the adhesion of the asphalt crust to the body.

Phoenixfluid® (WK/5)

Chip seal emulsion (WK / 5) is used for surface asphalt coating, especially on rural and low-traffic roads. This operation is performed by a machine that has an emulsion bitumen tank and stone materials.

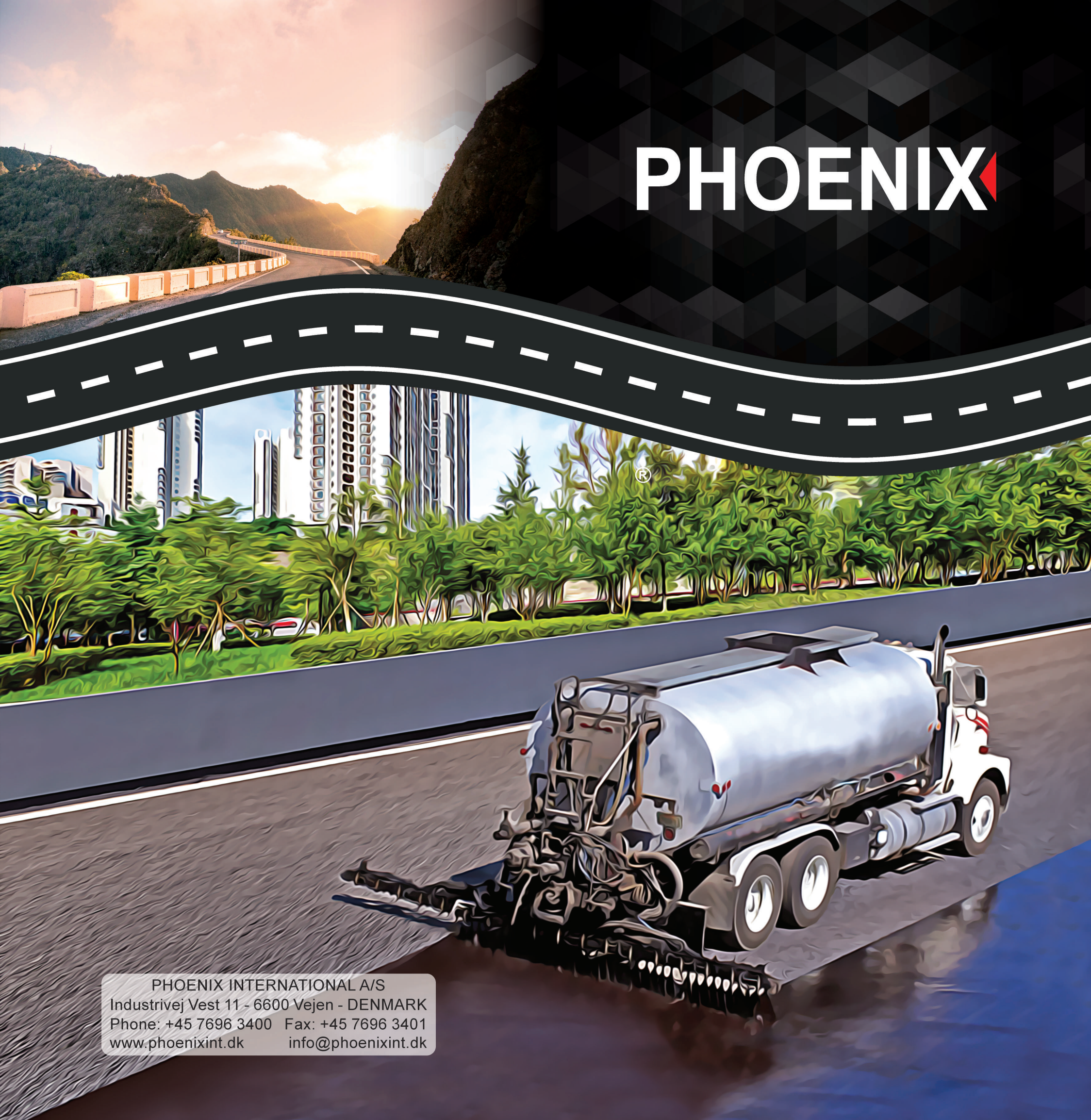
Phoenixfluid® (WK/6 · WK/66)

Fog Seal Emulsion (WK / 6, WK / 66) is one of the methods of maintaining and rehabilitating asphalt pavements. If it is intended to repair the existing road and asphalt of an axis, it should be repaired and maintained. The method is appropriate. Fog flooding causes sand and baldness to be repaired and small cracks in the asphalt surface to be filled.

Phoenixfluid® (WK/7)

Road mix emulsion (WK / 7) is said to produce cold asphalts, which is a mixture of rock and bitumen materials, and the bitumen and materials are mixed at room temperature and spread and compacted at the same temperature.

For all emulsions, it is possible to produce with the percentage of bitumen requested by the customer.



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