



**UPM<sup>®</sup>**

**cold applied,  
heavy duty**

**patching material**

**KOLD FLO<sup>®</sup>**

**cold applied  
crack filler**



*advanced products and systems for asphalt and concrete pavements*  
a range of special products and services for highways, airport and industrial pavements

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nder the trade names of UPM® and Kold Flo® high performance products are produced for repair and maintenance of asphalt and concrete pavements.

The characteristics of these products are:

- cold and easy application
- long lifetime
- attractive cost-effectiveness.



## **UPM® COLD MIX**

UPM® cold mix has the unique property of being workable under every temperature and weather condition. UPM® is manufactured in different grades that are suited to the climatic conditions experienced during the various seasons of the year. The viscosity of the mix is adapted to the average temperature of the local summer or winter. Because of this, the easy application is always guaranteed and it is possible to apply UPM® both under hot summer as well as severe winter conditions. Because of the excellent adhesive properties, even potholes containing water can be repaired with UPM®, without having to remove the water (the so-called throw-and-roll procedure).



### Cost-effective

Long-term field performance studies in the United States of America (SHRP H-106 project) showed that UPM® is the most cost-effective patching technique. In most cases repairs with UPM® are permanent repairs and they outperform the life of the adjacent surfacing.

### Application instructions

- Sweep out all dust and debris. Remove loose pavement material. Patch only on a solid base layer. For patches deeper than 50 mm apply and compact UPM® in different steps.
- Apply UPM® and level off 25% higher than the patch depth.
- Compact thoroughly (via steel roller or truck tires).
- Dust patch with sand.

*UPM® can be delivered both in bulk as well as in easy to use 25 kg bags. The shelf life is 1 to 2 years.*

### KOLD FLO® CRACK FILLER

Kold Flo® is a cold applied pourable asphalt and concrete pavement crack filler. Kold Flo®'s secret is a polymer modified bitumen emulsion. Kold Flo® is an excellent maintenance treatment for early cracks in pavements. Regular treatment of pavement cracks with Kold Flo® will lengthen the pavement life significantly and inhibit further damage such as raveling and potholes. Because of its special properties this product can be applied in and on cracks without many preparations and without the need for any special equipment. Depending on the air temperature, Kold Flo® can be driven over within 10 to 30 minutes after application, without the need of an aggregate cover.



### Traffic safety

Both the special composition of Kold Flo® and the small amount of excessive material that remains on the pavement surface, should minimize any skid resistance problems on the road. Since application of an aggregate cover is unnecessary, unsafe ridges are avoided.

### Application instructions

- Blow or sweep out the cracks, removing all vegetation, dust and other debris.
- Pour Kold Flo® into the crack, filling it up to the pavement surface. Pour about  $\frac{3}{4}$  of the length of the entire crack that has to be filled, allowing room for any excess material to flow into the remainder of the crack.
- Allow a few minutes for Kold Flo® to seep into the crack.
- Squeegee off the excess material with a 'V' squeegee. Add more if necessary.
- If the cracks are very wide or deep, a second application may be desirable.

*Kold Flo® can be delivered both in 200 liter barrels as well as in easy to use 1 gallon bottles for small repairs.*



## Ooms

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