

## TECHNICAL BULLETIN #31

## SAMI Bitumen Technologies

# SAMlprime K2

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## Primer Emulsion for Compacted Stabilised Bases

### Description

SAMlprime K2 is a penetrating primer emulsion specifically formulated for use on compacted stabilised or bound base course surfaces (lime or cement), or on unbound compacted surfaces. SAMlprime K2 is sprayed on to the surface prior to surfacing, to enhance the adhesion between the base course pavement and the new seal or asphalt.

Advantages of SAMlprime K2 over cutback bitumen primers are:

- It is less sensitive to moisture in the surface layer.
- Its low viscosity provides very good surface penetration.
- It provides very good wetting characteristics and adhesion.
- It can be sealed or asphalted over within 12 hours.
- It eliminates the use of dangerous goods.
- It will not contribute to bleeding of the final surface as it contains little cutter.
- It is non-hazardous and does not require heating.

### Specification

Residue from evaporation	mass %	20 min.
Viscosity @ 25°C	mPas	2 min.
pH		4.0 – 7.0

### Surface Preparation and Use

The surface to be primed must be swept clean and any loose material removed. SAMlprime K2 is sprayed at a rate of between 0.9 and 1.5 litres per m<sup>2</sup>, although this depends on the porosity of the surface and surface texture. SAMlprime K2 can be applied at ambient temperature however for best results a spray temperature of 40 - 60°C is best (do not heat above 70°C). Up to 5% white spirit may be added to SAMlprime K2 for very hard/tight surfaces or in cool pavement conditions. Do not dilute with water. The actual application rate should be determined on site prior to spraying. When the prime has fully cured the surface will be ready for spray seal or asphaltting. Penetration into the surface is time dependent and the curing process is dependant on climatic conditions, and will have occurred when the surface has changed in colour from a brownish liquid at time of spraying, to black.

Should the primed surface be required to be open to traffic, it is recommended to cover the surface (in the wheel tracks) with a coating of 5mm sealing aggregate once the prime has cured. This will help protect the prime from being worn off under trafficking. As the primer is not designed to resist the effects of trafficking, the aggregate will temporarily help protect the prime for a short period (and possibly overnight) depending on traffic volumes. Prior to sealing or asphaltting the surface thoroughly sweep the surface to remove all the aggregate.

SAMlprime K2 may be used as a Primer seal binder on very low volume, slow moving, trafficked roads. If so, spray at a rate of up to 2.5 litres per square metre and apply 5mm sealing aggregate.

As SAMlprime K2 is an emulsion, the surface may be “saturated dry” in appearance at the time of spraying.

K2 should not be mixed with Anionic emulsions.

This technical bulletin should be read in conjunction with the Material Safety Data Sheets.

*NOTE: Whilst every care is taken in the preparation of this bulletin, no responsibility is accepted for the interpretation of the information contained herein, nor is any warranty expressed or implied for the suitability of the material for a particular purpose.*