



S-40 PRIMER (ASPHALTUM)

PRODUCT DESCRIPTION:

S-40, when installed as a system with S-41 and S-45, forms an acid, alkali and water-resistant barrier as well as a flexible membrane between Summitville floor brick and concrete substrates. S-40 is a penetrating, fast-drying liquid containing asphalt and a suitable solvent. No chemical action will take place when the dry film is immersed for five days at 75°F in each of the following solutions:

- 1% Sulfuric Acid
- 5% Sodium Hydroxide
- 5% Potassium Hydroxide
- Water saturated with H₂S

USES:

The S-40/41/45 system is recommended for use as an impervious membrane under chemical resistant brick in corrosive environments such as flooring, walls, sumps, trenches, secondary containment barriers, concrete tanks, and manholes in steel, chemical, pulp, paper and refining industry applications. It protects concrete against highly corrosive chemical attacks and isolates brick from structural movement of the concrete. The S-40, 41, 45 system is not intended for use as an uncovered membrane as it can be affected by thermal and/or mechanical damage if not protected by brick coverings. The S-40, 41, 45 system is not recommended for use with organic solvents, some organic acids and strong oxidizers.

TECHNICAL DATA: Physical Properties

Property	Test Method	Typical Value
Asphalt, by weight		35 to 43
Solvent, by weight		55 to 65
Ash, by weight		.5% maximum
Drying time, @ 73.4 ± 4°F (23 ± 2°C)		2 hours maximum
Wt. /gal. @ 73.4 ± 4°F (23 ± 2°C)		7.0 to 7.5
Viscosity, @ 77°F (23°C)		30 to 50 cps.
Penetration of Residue, 73.4 ± 4°F (23 ± 2°C)	ASTM D5	20 to 60
Softening Point of Residue	ASTM D36	145 to 225°F (71.1°C to 85°C)
Flash Point		(12.8°C)

Surface Preparation

The concrete must be hard and free of all loose particles and under cover for protection from weather. The surface must be dry and free of all dirt, oil, grease and other contaminants. It must have a neat clean float finish, free from ridges and depressions. Substrate temperature and atmosphere must be 50°F to 90°F. Substrate must be 5°F above the dew point. Substrate must be protected from direct sunlight and all water and weather until chemical final surface has been installed. Substrate must also be dry enough to pass the ASTM D 4263 Plastic Sheet Test Method.

Application of S-40 Primer

After the concrete surface is inspected and found to be free from cracks and defects of any kind and all temperature and protection limitations have been met, Mix S-40 primer with a drill mixer just before application to ensure an even mixture of materials. S-40 Primer may be applied by brush, roller or airless sprayer. Allow drying until essentially tack-free, usually 4 hours @ 73°F. Drying time is dependent upon

temperature. If the temperature is below 70 degrees F, more than 4 hours will be required and above 70 degrees F, the primer will become tack-free in less time.

COVERAGE:

One gallon of S-40 required for each 50 sq. ft of surface.

PACKAGING:

S-40 is available in 5-gallon pails.

SPECIFICATIONS:

Material: S-40 Primer shall be fast-drying liquid containing asphalt and a suitable solvent to be used with the S-41 hot melt membrane system and S-45 reinforcement cloth. The primer shall be supplied by Summitville Tiles, Inc., Summitville, Ohio.