



PRODUCTS FOR OUR ENVIRONMENT

TECHNICAL DATA SHEET

ERS-Coal Tar

P/N: 010-0035

For Professional Use Only



PRODUCT DESCRIPTION:

ERS-Coal Tar is manufactured to provide unique performance properties as a high-quality, coal tar pitch for use in the construction of built-up roof membrane assemblies. ERS-Coal Tar may be used as an interply adhesive with appropriate Ecology tar-based ply sheet, and as a surfacing floodcoat with gravel. ERS-Coal Tar complies with ASTM D 450, Type I. The molecular structure produces inherent characteristics that are resistant to water, UV and vapor penetration. In addition, its self-healing characteristics provide extra protection.

RECOMMENDED USES:

ERS-Coal Tar can be used as a mopping adhesive for built-up roof assemblies, a high-performance floodcoat on new hot-applied tar or asphalt built-up roofs, or as a maintenance surfacing on aged tar or asphalt roof systems.

ADVANTAGES:

- Brush grade – for use in cold weather.
- Trowel grade – for warm weather emergency repairs.
- May be applied in ponded conditions.
- Contains no asbestos.

APPROVALS:



INSTALLATION:

Surface Preparation: Surface must be clean and dry.

Material Preparation: During start up, bring material to molten stage slowly to minimize hot spots around heating flues. To achieve a consistent temperature of ERS-Coal Tar during application, the kettle should be equipped with a circulating pump. Do not heat above 425°F (218°C). ERS-Coal Tar should be applied at the labeled EVT range.

Application: Apply ERS-Coal Tar may be applied by mop. Felt layers, such as Garlock Universal, can also be used. Chain mops may also be used. Install bitumen stops (envelopes) for a continuous edge seal at the perimeter and at penetrations by extending ERS-403 or 2 plies of non-perforated organic, asphalt saturated felt beyond the edge of the membrane field plies. After all overlaying plies are in place, the extended ply is turned back onto the membrane and adhered. The envelope is intended to prevent bitumen seepage from the edge of the membrane.

Final Surfacing: As the surfacing floodcoat of ERS-Coal Tar is applied, immediately broadcast new, clean, and dry roof gravel into hot material at a rate of no less than 500 lbs/100 sq.ft.

COVERAGE:

Interply: 2.5 gallons $\pm$ 25% per 100 sq.ft. (25 lbs. $\pm$ 25%) per ply.

Surfacing Floodcoat: 7.5 gallons $\pm$ 25% per 100 sq.ft. (75 lbs. $\pm$ 25%) minimum.

PACKAGING:

ERS-Coal Tar is available in 200 lb. containers (8 per pallet).

STORAGE LIFE:

Two (2) years when kept in a clean, dry storage area.

PRECAUTIONS:

- At temperatures below 40°F (4.4°C), special care is necessary in the application of built-up roofing. Materials and roof deck must be dry at time of application. Care must be taken to ensure recommended EVT temperature is maintained at point of application to ensure proper adhesion. Membrane must be installed in hot bitumen immediately. Mopping should not proceed the membrane by more than three (3) feet.
- Kettle should circulate material during heating process.
- Install bitumen stop (envelope) for a continuous edge seal at the perimeter and at penetrations. Tar guards should be used at drains and metal bitumen dams used at vent stacks.
- Do not use ERS-Coal Tar with tarred glass felts on slopes that exceed ¼" per foot.
- Do not use with organic felts on slopes that exceed ½" per foot.
- Not designed for smooth surface finish; gravel must be applied in a floodcoat.
- Plies extending above the cant as water seal during installation should be cut off at the top of the cant before the base flashing system is installed.
- Flashings must be constructed with systems other than coal tar due to the cold flow properties of coal tar.

PHYSICAL PROPERTIES:

Property	Test Method	Result
Softening Point	126 – 140°F (52°C – 60°C)	ASTM D 36
Penetration, 77°F (25°C)	15 units, minimum	ASTM D 5
Water, % by Weight	None	ASTM D 95
Specific Gravity	1.22 – 1.34	ASTM D 70
Ash, % by Weight	0.5 maximum	ASTM D 2415
Flash Point, C.O.C., °F	350 maximum	ASTM D 92
Asbestos Content	0%	EPA 600/R-93/116

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