

Coal Tar Roof Restoration Specification No. S-1000

ROOF RESTORATION SURVEY

Before starting any roof restoration project, it is important to determine if the existing roof assembly contains a detectable amount of moisture. If moisture is detected, all wet areas should be removed and replaced with matching materials. If moisture has penetrated a significant amount of the roof area, Durapax Commercial Roofing Systems should be contacted for specific recommendations.

SURFACE PREPARATIONS

Gravel Surfaced Coal Tar Roof Membranes only

Remove all dirt, debris, and loose gravel from the roof surface using a power broom or vacuum. If brooming is the preferred method, a leaf type blower should be used to remove any remaining dirt from the roof surface.

Repair or replace all membrane and flashing defects (e.g. blisters, splits, punctures, etc.) that may affect the structural integrity of the membrane system. Inspect and repair, as necessary, all membrane penetrations, (e.g. pitch pockets, vent pipes, equipment curbs, roof drains, etc.).

In order to avoid having to work around new (uncured) membrane repairs, it is recommended that any major repairs to the primary roof membrane be completed with hot applied bitumen in lieu of a cold process method. Consult your Durapax Representative for specific repair recommendations.

All repairs should be made in accordance with industry standards.

Although priming is not normally recommended, if the prepared surface appears to be extremely dry and or dusty, a coat of Durapax coal tar primer is recommended. Apply primer at a rate of 1/2 to 1 gal. per 100 sq. ft.

MATERIAL PREPARATION

Durapax Type I coal tar roofing pitch may be heated in conventional roofing equipment, kettles or bulk tankers.

Heating and Application Temperature Guidelines

Product	Maximum Kettle or Heating Temperature °F	Point of Application (EVT) °F
Coal Tar Pitch ASTM Type I	400	360±25

During cold weather applications, insulated transfer equipment should be utilized to assure proper point of application temperature without the need for overheating in the kettle or tanker.

Typical Properties

Durapax Type I coal tar roofing pitch is manufactured to meet the following ASTM D-450 specifications. Material certifications are available upon request at the time of order placement.

Property	Type I
Water, max. %	0
Specific gravity, 25/25°C	1.22 to 1.34
Softening point (ring-and-ball), °C	52 to 60
°F	126 to 140
Flash point, Cleveland open cup, min. °C	190
min. °F	374
Total pitch soluble in carbon disulfide, %	72 to 85
Ash, max. %	0.5
Total Distillate:	
0 to 300°C (32 to 572°F), max. %	10
0 to 315°C (32 to 599°F), max. %	—
0 to 360°C (32 to 680°F), max. %	—
Specific gravity of distillate from 0 to 300°C (32 to 572°F), min. 38/15.5°C	1.03
Softening point (ring-and-ball) of residue from distillation to 300°C (572°F), max. °C	80
max. °F	176

Every effort should be made to keep application rates at the recommended amounts. Insufficient material can affect the long term performance of the membrane system and conversely, excessive quantities can result in possible pitch migration.

For additional application information, consult the Durapax Roofing Systems Manual.

APPLICATION OF ROOFING PITCH

Over the entire surface of the prepared membrane, apply a uniform pour coat of hot coal tar pitch which shall average not less than 85 lbs. per 100 sq. ft. While the pitch

is still hot, embed not less than 300 lbs. of slag or 400 lbs. of gravel per 100 sq. ft. of roof area. It is recommended that the aggregate surfacing meet ASTM D-1863.

APPLICATION PRECAUTIONS

- For exterior use only.
- Do not smoke or expose to open flame during application.
- To reduce the potential for odors entering the building, cover fresh air intakes during application.
- Not for use with potable water collection systems.

PRODUCT SAFETY INFORMATION

Coal tar roofing and waterproofing pitches have been used safely for many years. It is important however to recognize that coal tar pitches may irritate the eyes, skin, nose and throat. Ingestion may be harmful. Prolonged and repeated skin exposure over many years in the absence of recommended hygiene practices, may lead to changes in skin pigmentation, and in some cases cancer. Anyone responsible for the procurement, use, or disposal of this product should familiarize themselves and those handling the product with the appropriate safety and handling precautions involved.

As with many commercial products, certain health precautions (i.e. skin irritation or respiratory irritation) and safe handling (i.e. fire prevention) must be observed. Please read the Material Safety Data Sheets associated with this product before handling or use.

For specific information contact your Durapax representative for an up-to-date Material Safety Data Sheet on this product or contact Durapax LLC Commercial Roofing Systems at 610-579-9075. In case of emergency, information can be obtained by calling the Durapax Chemtrec 24 hour emergency number, 800-424-9300.

NOTE

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