

# StenCoat® MCTE

## 1. Product Profile

**StenCoat® MCTE** is designed for asphalt surfaces, to protect, beautify and enhance the pavement. It is an emulsion based on concentrated refined coal tar modified with polymers, stabilized with special emulsifiers and has additives and fillers that enhance adhesion and abrasion resistance. It is prepared to be used after adding anti-slip sand. In order to form an anti-slip surface, it is used with special size silica aggregate.

**StenCoat® MCTE** increases impermeability of asphalt surfaces, provides UV radiation and ozone resistance, increases its resistance against oxidation. It prevents peeling and surface deterioration due to oxidation, which is frequently observed especially at rarely used asphalt pavements. It is used for repairing surfaces in that condition. It decreases the need for maintenance and repair of asphalt pavements, increases their service lives significantly.

**StenCoat® MCTE** is available in **20 kg** containers.

## 2. Uses

**StenCoat® MCTE** is used in protecting, repairing and beautifying all types of asphalt surfaces at airports, highways, parking lots and motorways.

## 3. Application

The surface must be clean. Loose materials must be removed and parts in disrepair must be repaired. Cracks must be filled with **StenSeal® 2PT110**.

Even after cleaning with detergent, sections stained with materials such as grease, oil, kerosene and fuel must be primed with **StenAst® LTX**. If at such places contaminants penetrated deep into the asphalt coating and caused the coating to soften, the

## Polymer Modified Coal Tar Emulsion Based Surface Coating Material for Asphalt Coatings

### Highlights

#### StenCoat® MCTE

- It is polymer modified refined coal tar based emulsion.
- It increases impermeability of asphalt surfaces.
- It provides radiation and ozone resistance and also increases its resistance against oxidation.
- It prevents peeling on asphalt surfaces; it protects the coating.
- It decreases the need for maintenance and repair of asphalt coatings, increases their service lives.
- It can be applied by means of pressurized spray equipment, power trowels or manually.

coating in that section must be completely removed and replaced. **StenCoat® MCTE** is applied by means of pressurized spray application equipment, power trowels or manually. In spray application the equipment must be suitable for spraying sandy material.

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For a homogeneous coating to be applied on the whole surface throughout the application, these equipment must have the implement for continuously mixing the material. In case a power trowel is used, the coating must be spread evenly and for penetration into the asphalt surface, it must have minimum two screed rails or brushes following it. Screed rails and brushes may be used in case machine application is difficult.

## Mixing Process and Ratios

**StenCoat® MCTE** must be used after mixed with sand and water in amounts specified in the following table. The values in this table

are organized in order to give a brief idea to the project manager. Required modifications can be made depending on the floor structure, properties of sand and desired texture. Mixing process must continue until the whole material is applied in order to maintain homogeneity. Sand to be used must be silica based and between 0.5 - 1.2 mm size range.

The amount of **StenCoat® MCTE** applied is 0.5 lt /m<sup>2</sup> to 1.0 lt /m<sup>2</sup> (0.65 kg/m<sup>2</sup>- 1.3 kg/m<sup>2</sup>). However these amounts may change depending on the age and surface roughness of the asphalt coating.

Purpose	Layer	Consumption (lt/m <sup>2</sup> )		StenCoat® MCTE		Water	Sand	StenAst® LTX
		Min.	Max.	lt	kg	lt	kg	lt
Light Traffic: Residence Garden Walkways, Parking Areas, Pedestrian and Bicycle Paths	1 <sup>st</sup> Layer	0,7	1	100	120	35	30	1,5
	2 <sup>nd</sup> Layer	0,7	1	100	120	32	17,5	1,5
Medium Traffic: Vehicle Roads, Park Areas, Airports and Highway Shoulders	1 <sup>st</sup> Layer	0,7	1	100	120	40	45	2
	2 <sup>nd</sup> Layer	0,5	0,7	100	120	40	30	2
Heavy Traffic: Commercial and Industrial Park Areas, Airport Runways Service Stations and Highway Shoulders	1 <sup>st</sup> Layer	0,7	1	100	120	45	45	2,5
	2 <sup>nd</sup> Layer	0,7	1	100	120	45	45	2,5
	3 <sup>rd</sup> Layer	0,5	0,7	100	120	30	30	1,5

## 4. Environmental Impact Evaluation Data

**StenCoat® MCTE** does not contain asbestos and heavy metals. **StenCoat® MCTE** is a environment friendly water borne material and the amount of volatile organic matter (VOC) is less than 30 g/lt.

## 5. Warnings

- During the application, surface and ambient temperature must be minimum 10°C and the temperature must not drop below 10°C for the 24 hours following the application.
- **StenCoat® MCTE** must not be applied on

new asphalt pavements until at least four weeks in suitable conditions pass after laying down.

- Keep out of the reach of children.
- Keep above freezing temperature during storage.
- The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

## 6. Cleaning

Mixing and application tools must be cleaned

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with an aromatic solvent right after being used. **StenSolver CL** can be used for this purpose.

## 7. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

## 8. Storage

The materials must be stored at storages with controlled temperature of 10 - 30 °C and must be protected from freezing, sunlight and moisture. The materials must be kept far from open fire and sources that may

create fire hazard. Stored unopened in these conditions, the shelf life is 12 months.

## 9. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by **Stenkim**® and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All **Stenkim**® products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by **Stenkim**®.

**Stenkim**® reserves the right to update all information contained in this document without notice.

## Technical Data

Property	Specification	RESULT
Uniformity	The Material Must be Homogeneous and There Must Not be Flocculation or Phase Separation.	Proper
Residue by Evaporation	47-53 %	Proper
Ash of Residue	30-40%	Proper
Solubility of Residue in CS <sub>2</sub>	20%	Proper
Density @ 25°C, min	1.20 g/cm <sup>3</sup>	Proper
Drying Time, max.	8 hours	Proper
Water Resistance	There Must Not be Penetration or Adhesion Loss	Proper
Resistance to Heat	There Must be No Cracking or Flow	Proper
Flexibility	There Must be No Cracking or Peeling	Proper
Impact Resistance	There Must be No Swelling, Cracking or Skinning	Proper
Resistance to Volatilization	There Must be Maximum 10% Weight Loss	Proper
Color	It is Matt Black After it Cures	Proper

**RELATED STANDARDS:** ASTM D 5727, RP 355e, ASTM D 3320-74T, MIL-C-15203c, FAA P627, FAA P628 (Specifications for coal tar pitch emulsion (CTPE) pavement sealer)

**Stenkim**® reserves the right to make changes in the values in this table at any time.