CARBONYTE SYSTEMS INC
*High Performance ECOPURE Materials*

*AEROSPACE MATERIALS TECHNOLOGY*

# TECHNICAL DATA SHEET

# *CARBONYTE TYPE-S SLURRY*

***CARBONYTE TYPE-S SLURRY*** is a single package, water dispersed, stone matrix filled, polymer surfacing for asphalt concrete pavement. The material comes in a variety of design mixes and may be tailored to meet exacting specifications of the end user. This is accomplished by fortification of ceramic fiber/select rock blends together with a wide range of rheology modification that produces an easy to apply, tough and resilient coating able to withstand abuse of environment and vehicular impact while restoring surface profile to extend the service life of pavement. The product, after stirring, may be easily applied by soft squeegee, spray, or roller. **Available in 5 and 54 gallon containers, 275 gallon totes and bulk. Material available as a Type I and Type II design.**

**ADVANTAGES:**

- Can be modified to be applied in cool conditions.
- Single package means no limited pot life, induction times, or proportioning of multiple components.
- High build single pass coverage, speeds project completion.
- Tenacious adhesion. Will not delaminate under ponding water when fully cured.
- Rapid curing at modest temperatures; usually allows same-day opening to traffic in less than two hours.
- High temperature, tire scuff resistant to power steering abuse.
- Contains no bio-accumulative metals, or chemicals; contains no biocides.
- Non-hazardous in cured form; therefore, may be disposed as cured residue into any municipal landfill.

**USES:**

- Designed for application as a protective top coating of asphaltic concrete pavement assets used as playgrounds, parking lots, industrial warehouse floors, driveways, surface streets and highways.
- Creates high visibility as a safety coating, communicate rights-of-way to vehicular/pedestrian/bicycle traffic, and used to beautify pavement.

**APPLICATION:**

Apply only onto clean, dry surfaces from which all contaminates have been removed; i.e. built-up crankcase drippings, oil spots, loose traffic paint, dirt etc. Areas upon which a high build-up of grease or loose paint exists shall be scraped, wire brushed and then torch prepared to completely eliminate the contaminate from the underlying, sound asphaltic substrate. Prior to application it is recommended that these treated areas be further prepared by surface priming with Ecostar's ***GRIMEPRIME.***

Where surface profile restoration of divots, depressions or slightly off grade areas is desired ***ARM SLURRY*** may be mixed with Type II stone and/or sand to a thick paste consistency then placed into the low areas and troweled smooth. These areas should be allowed to cure prior to surfacing with **Carbonyte Type-S Slurry.**

**CARBONYTE TYPE-S SLURRY** is supplied in a high viscosity, yet pourable consistency. This is necessary to insure anti-settling properties. Immediately prior to application stirring is recommended with a dowel or mix blade attachment driven by electric drill until homogeneous. Diluting is not recommended so that cure time, shrinkage, and sufficient coverage are not impacted. Soft (Gum Rubber) Squeegee application is recommended for hand applications and spreader box or spray for large areas. Application will vary due to amount of cracking in substrate or surface porosity but should be equal to 0.35 – 0.55 gal./SY on vehicular pavement and min. 0.35 gal./SY on sidewalks or bike trails.. The coating should extend to edges of all applied surfaces. In heavy applications it is recommended that after water cure that surface be rolled by truck or weighted roller to assure good compaction of thick film.

Do not apply this product unless sufficient weather conditions exist to assure full cure prior to being subjected to snow, rain or heavy dew. **CARBONYTE TYPE-S SLURRY** is one of the fastest curing, single package, waterborne road surfacing compound available; but its curing rates are still dependent upon evaporation of the minimal quantities of water contained within the formula. The atmosphere is the 'pump' which must provide a lower vapor pressure differential above the surface of the uncured coating for it to condense and dry. The combined effects of five physically measurable properties: surface temperature, air temperature, sun load, wind and humidity will determine the water removal capabilities of this atmospheric 'pump' at any given moment. The professional installer will gain valuable experience in gauging time-to-cure by observing cure times against spread rates within the range of these five indicators. It is recommended that the inexperienced applicator only apply this product during daylight hours, at surface and air temperatures above 70° F (and rising) with no snow, rain or heavy dew in the forecast for at least 24 hours.

Immediately clean implements, including hoses, with cool water after application. **CARBONYTE TYPE-S SLURRY** may crosslink if left standing in sun exposed spray hoses.

**TRANSPORTATION, STORAGE AND HANDLING:**

- DOT: Not Regulated
- Keep out of reach of children.
- Do not allow to freeze prior to application**.**
- Do mix with any other products.
- Avoid prolonged skin contact.
- Keep containers tightly sealed when not in use.
- Do not take internally. Do not induce vomiting if swallowed--call a physician immediately.
- Store, handle and dispose per MSDS requirements.

**Call Carbonyte Systems for sales and technical assistance: (916) 387-0316**

**SHIPPING INFORMATION:**

| Container Size | Units Per Pallet | Area Per Pallet | Weight Per Pallet | Pallet per 48" Trailer |
|---|---|---|---|---|
| 5 gallon pails | 32 | 40 $ft^3$ | ~2,150 lbs | 22 |
| 55 gallon drums | 4 | 58 $ft^3$ | ~2,900 lbs | 16 |

**PHYSICAL PROPERTIES:**

| | | |
|---|---|---|
| Water Absorption | < 3% | ASTM D-570 |
| Weight per gallon | 11.2 - 12.6 lbs./gal | ASTM D-1475 |
| Cured Film thickness/gallon/100s.f. | 10 - 12 mils | ASTM C-836 |
| Percent Solids | 64-75 | ASTM D-2939 |
| Biocide Content | NONE | |
| VOC | < 10 grams/liter | BAAQMD Vol 3 Lab 22 |

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