

# SERVIRUFE<sup>®</sup> Traffic Deck System

Cold-applied, concrete deck waterproofing system combining sheet and liquid membranes

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## System Description

SERVIRUFE<sup>®</sup>Traffic Deck System combines BITUTHENE<sup>®</sup>4000 sheet membrane and SERVIDEK<sup>®</sup>liquid membrane with SERVIPAK<sup>®</sup>protection boards to provide a durable waterproofing and protection system capable of accepting a wide variety of wearing surfaces on concrete decks subject to pedestrian and vehicular traffic.

Unlike hot applied systems which can become brittle and debond from the substrate, SERVIRUFE<sup>®</sup>Traffic Deck System remains flexible and fully bonded.

The system can be further enhanced by using HYDRODUCT<sup>®</sup>as a sub-surface drainage sheet.

## Installation

### Surface Preparation

Substrate surfaces must be dry, clean, and free from sharp projections such as nail heads, concrete nibs, etc. Concrete surfaces should have a float finish. All surfaces to be waterproofed should be first treated with B2 primer, at a coverage rate of 10 – 12 m<sup>2</sup> per litre and allowed to dry completely.

### Application

1. Release paper on BITUTHENE<sup>®</sup> 4000 membrane is removed prior to application to the substrate. In all cases, as the membrane is laid, it must be pressed firmly from the middle outwards so that air is not trapped.
2. Adjacent membrane sheets should be overlapped by at least 100 mm along their length and by at least 100 mm at ends and vertical joints.
3. All lap joints must be pressed firmly to form a continuous bond ensuring weathertightness.
4. Parts A and B of SERVIDEK<sup>®</sup> compound are mixed on site to a combined volume of 22.5 litres and spread by a trowel or squeegee onto the membrane at a coverage rate of approximately 10 m<sup>2</sup> per unit. Application of SERVIDEK<sup>®</sup> compound must take place immediately, otherwise pouring and spreading will be restricted.
5. Application of SERVIDEK<sup>®</sup> compound should not be made if rain or frost are imminent, or in conditions where it is likely to freeze before curing.
6. SERVIDEK<sup>®</sup> compound should be protected immediately from solar heat gain by bedding SERVIPAK<sup>®</sup> 3 protection boards onto the uncured compound.

1. SERVIPAK® 3 protection boards should be cut and trimmed on site and joints closely butted. Joints between the boards are covered with Armourtape bonded onto primed surface of SERVIPAK® 3 boards.  
For taping joints below cold applied finishes use Perm-A-Barrier Detail Membrane. See separate data sheet.
2. Any exposed vertical surfaces of BITUTHENE® 4000 membrane should be adequately protected by SOLARSHIELD® or a suitable counter flashing.
3. A suitable surfacing of hot-rolled asphalt or concrete must be applied over the SERVIPAK® 3 protection boards.

## Product Advantages

- **Dual Protection System** - combines the advantages of preformed sheet with seamless liquid for maximum assurance
- **Robust protection** - SERVIPAK® boards prevent damage during construction and service
- **No naked flame system** - eliminates fire hazard
- **Flexible** - membrane and compound properties accommodate minor movement
- **Bonded system** - prevents lateral water migration and transfers braking forces to substrate
- **Optional drainage system** - high compressive strength drainage sheet available to provide efficient deck drainage.

### SUPPLY

#### SERVIRUFE® Traffic Deck System

|               |   |
|---------------|---|
| Length        | 1.0 m x 20.0 m roll (20 sq m)                 |
| Weight        | 32 kg   |
| Palletisation | 15 rolls per pallet                           |
| Storage       | Store upright in dry conditions below +30 °C. |

#### PRIMER B2

|          |   |
|----------|---|
| Coverage | 5 and 25 litre drums  |
|          | 10-12 sq metres per litre depending on method of application, surface texture, porosity and ambient temperature |

#### SERVIDEK®

|              |   |
|--------------|---|
| Coverage     | 22.5 litre pack   |
|              | Approx. 12.5 sq metres per mixed unit @ 1.5 mm thickness            |
| Storage      | Under cover in original sealed containers above +4 °C, below +30 °C |
| Shelf Life   | 12 months   |
| Working life | Approximately 20 minutes at 20 °C RH 60%                            |

#### Protection Boards

|                |                                   |
|----------------|-----------------------------------|
| SERVIPAK® 3    | 3 mm x 1.0 m x 2.0 m              |
| SERVIPAK® 6    | 6 mm x 1.0 m x 2.0 m              |
| Armourtape E   | 75 mm x 20 m rolls                |
| HYDRODUCT® 650 | 32 m x 1.25 m = 40 m <sup>2</sup> |

#### Ancillary Materials

See separate data sheets

Equipment by Others: *Brush or airline for cleaning surface. Soft broom, paint brush or roller, Stanley knife and hand tools.*

## Specification

For NBS specifications contact GCP Applied Technologies.

## Health and Safety

For SERVIDEK<sup>®</sup>, Primer B2, BITUTHENE<sup>®</sup>Liquid Membrane read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDSs can be obtained from GCP Applied Technologies or [gcpat.com](http://gcpat.com).

There is no legal requirement for a Safety Data Sheet for BITUTHENE<sup>®</sup>4000, SERVIPAK<sup>®</sup>Protection Boards, Armourtape, HYDRODUCT<sup>®</sup>. For health and safety questions on these products please contact GCP Applied Technologies.

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