

**GENERAL CONDITIONS****Workmanship**

All work in this section is to be carried out by a skilled applicator approved by PennKote and in strict accordance with manufacturers instructions.

**Product Storage and Handling**

All materials are to be stored in a clean, dry and protected area in their original containers sealed and undamaged. Store materials at temperatures above 0°C. Manufacturers labels are to be easily visible and undamaged.

**Environmental Conditions**

Materials should be applied and allowed to cure at temperatures above 0°C.

**MATERIALS**

Base coat shall be Pennkote **WATERTITE WS** a two component polyurethane compound manufactured by Pennkote.

Intermediate coat traffic bearing surface shall be aggregated **WATERTITE WS** a two component polyurethane compound manufactured by Pennkote.

Aggregate shall be 30 mesh silica aggregate as supplied by PennKote.

Top coat for interior applications shall be **WATERTITE WS LV** a two component polyurethane compound manufactured by Pennkote. Top Coat for exterior application shall be light stable and UV resistant **WATERTITE WS TCO** a two component aliphatic polyurethane compound manufactured by Pennkote.

Reinforcing fabric shall be PennKote **PENNFLEX** 16 denier flexible nylon reinforcing mesh.

Joint Sealant shall be PennKote **WATERTITE JS** a two component cold applied liquid rubber joint sealant.

**APPLICATION****Preparation**

Surface must be clean, dry and free of laitance. In order to achieve this, blast track, sand blast, water blast or other forms of mechanical preparation may be required depending on condition of concrete. Prepared surface must be approved by PennKote prior to application. Concrete must be cured for minimum 28 days prior to application.

**Base Coat Application**

Apply one uniform coat of **WATERTITE WS** to prepared surface by using trowel, squeegee and/or roller at the rate of 275 ft<sup>2</sup> per unit (30 mils). Reinforce all cracks, drains and other protrusions with **PENNFLEX** reinforcing fabric. Extend base coat a minimum of 6" in all vertical directions. **NOTE:** Provide good ventilation (heat in cold weather) to facilitate curing. Allow base coat to cure overnight.

**Intermediate Coat Application/Traffic Bearing Membrane**

Normal Duty (parking stalls/pedestrian traffic)

Apply one uniform coat of **WATERTITE WS** onto base coat using a trowel, squeegee and/or roller at a rate of 500ft<sup>2</sup> per unit (15mils). Immediately broadcast 30 mesh silica aggregate into fresh **WATERTITE WS** to a)excess or b)less to achieve desired finish.



Aggregate application Method a) the broadcasting of the aggregate to excess shall be done as soon as possible following the Watertite WS intermediate coat application. Delays can result in non-uniform texture. Broadcasting of the aggregate is considered adequate when an unbonded layer of aggregate can be seen remaining on the surface. Method b) Typical aggregate loading for Normal wear exposure traffic is 15lbs per 100 ft<sup>2</sup>.

#### Heavy Duty (driveways)

Apply one uniform coat of **WATERTITE WS** onto base coat using a trowel, squeegee and/or roller at a rate of 320ft<sup>2</sup> per unit (25mils). Immediately broadcast 30 mesh silica aggregate into fresh **WATERTITE WS** to a)excess or b)less to achieve desired finish. Aggregate application Method a) the broadcasting of the aggregate to excess shall be done as soon as possible following the Watertite WS intermediate coat application. Delays can result in non-uniform texture. Broadcasting of the aggregate is considered adequate when an unbonded layer of aggregate can be seen remaining on the surface. Method b) Typical aggregate loading for Heavy Duty wear exposure is 30lbs per 100ft<sup>2</sup>.

#### Extra Heavy Duty (turns and ramps)

Apply one uniform coat of **WATERTITE WS** onto base coat using a trowel, squeegee and/or roller at a rate of 230ft<sup>2</sup> per unit (35mils). Immediately broadcast 30 mesh silica aggregate into fresh **WATERTITE WS** to a)excess or b)less to achieve desired finish. Aggregate application Method a) the broadcasting of the aggregate to excess shall be done as soon as possible following the Watertite WS intermediate coat application. Delays can result in non-uniform texture. Broadcasting of the aggregate is considered adequate when an unbonded layer of aggregate can be seen remaining on the surface. Method b) Typical aggregate loading for Extra Heavy Duty wear exposure traffic is 40lbs per 100ft<sup>2</sup>.

#### Top Coat Application

Exterior application - apply one uniform coat of **WATERTITE WS TCO** over cured **WATERTITE WS** using a brush, roller or spray at a approximate rate of 800 ft<sup>2</sup> to 1000 ft<sup>2</sup> per 15 litre unit to obtain approximate 5 mil (0.125mm) DFT coat. Use of weather resistant top coat is required for certain colours. Weather resistant top coat is also required when intermediate coat is aggregated to excess. Consult PennKote for specific details.

Interior application - apply one uniform coat of **WATERTITE WS LV** over cured **WATERTITE WS** using a brush, roller or spray at a approximate rate of 500 ft<sup>2</sup> to 600 ft<sup>2</sup> per 19 litre unit to obtain approximate 10 mil (0.250mm) DFT coat. The use of **WATERTITE WS LV** as a top coat is required only when the intermediate coat is aggregated to excess.

**NOTE:** Aggregation to excess is necessary in order to achieve full saturation. Sweep off or vacuum off all non bonded aggregate prior to the application of the top coat at the rate sufficient to tie and encapsulate the wear course textured surface.

#### DETAILS

**Cracks** - Minor cracks (less than 5mm) shall be reinforced using **PENNFLEX** fabric embedded in first layer of **Watertite WS** base coat. Large cracks (greater than 5mm) shall be repaired first by trowel application of special mortar mix consisting of 3 parts by wt of aggregate and 1 part by wt **Watertite WS** binder followed by **Pennflex** reinforced **Watertite WS** base coat application centred over the crack.

**Curbs & Penetrations** - Extend Watertite WS at least 4in(100 mm) to all vertical directions.

**Drains** - Watertite WS base coat shall be extended into the drain cavity and if necessary reinforced using **PENNFLEX** fabric.

**Joints** (Consult PennKote for joint details.)

#### WARRANTY

PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.



TECHNICAL DATA SHEET

# watertite TDS

Traffic Deck System