Dantex PEP-Coat® 2010
Seals and Protects Concrete Pavements

1. GENERAL DESCRIPTION:

PEP-Coat 2010 is a Surfacing System seals that seals and protects concrete pavements from erosion, frost damage, aircraft fuel spillage and de-icing chemicals. It prolongs service life and arrests further deterioration. If a high friction finish is required, suitable high PSV aggregates can be applied to the final wearing surface.

2. PRODUCT:

PEP-Coat 2010 is a two component, modified epoxy binder topped with a nominal 1 – 3mm high PSV aggregate.

3. SURFACE PREPARATION:

3.1　The client engineer or installer shall establish the traffic management system to comply with Chapter 8 of the Traffic Signs Manual.

3.2　The area to which the system is to applied shall be clearly defined by the client prior to commencement of work on site.

3.3　Any imperfections in the road surface not acceptable to the installer shall be reinstated with a material approved by the Purchaser in consultation with the Installer.

3.4　Mechanically sweep and remove all spoil from the site.

3.5　Existing road markings, ironwork, road edges of areas to be treated and road studs shall be suitably masked.

4. MIXING & APPLICATION:

4.1　The pavement structure should be adequate to support the traffic without undue cracking or deformation during the expected life of the system.

4.2　Installation of the system shall only be carried out at a road surface temperature of 5ºC to 35ºC.

4.3　Ambient and road surface temperatures shall be recorded at the start and, if the weather is variable, during the installation process.

4.4　Road surfaces shall be dry before and during the installation of the system.

4.5　The system is designed to be installed by a competent highway contractor experienced with this type of system.

5. INSTALLATION PROCEDURE:

5.1　Warm the surface of the concrete by using a hot compresses air lance.

5.2   Add a unit of Epoxy Part A to a unt of Epoxy Part Band thoroughly mix with a suitable mechanical mixer for 3 – 5 minutes until homogenous.

5.3   Mix one pack at a time. In colder conditions 5ºC to 10ºC the components may need to be heated to around 30ºC to enable easier material handling.

5.4   Apply immediately onto the prepared, warm, dry concrete surface using a brush, coarse oller or squeegee and ensure that the exposed area is fully covered.

5.5   Work the material into the edges and the deeper voids taking care not to allow the material to form puddles.

5.6   On rugous surfaces a greater rate of spread may be required to ensure adequate coverage of the surface.

5.7   Evenly broadcast the high PSV aggregate onto the surface ensuring all the wet resin is fully covered and no wet patches are showing through. Should the binder bleed through apply more aggregate.

5.8   Do not disturb the layer of aggregate whilst the resin is still wet. Do not roll the aggregate.

5.9   When the resin has cured remove the excess aggregate by vacuum cleaner or other suitable means. The amount of aggregate fully retained is approximately 7 – 10 kg/m^2

5.10   The pot-life of mixed **PEP-Coat 2010** is approximately 20 minutes so care should be taken to ensue the material is spread onto the prepared surface without delay and the aggregate applied immediately.

5.11   The curing time will depend on the ambient temperature but initial cure will occur within 3 - 6 hours. During the curing period no disturbance or trafficking of the system shall be permitted. Once the **PEP-COAT 2010** is fully cured further sweeping will be necessary until the initial shedding of aggregates has taken place.

6. SYSTEM INSTALLATION CHECKS:

The installer should conduct a visual check for uniform surface texture, blemishes and correct application. Any discernible faults at either stage of the installation must be corrected.

7. SYSTEM SAFE HANDLING PRECAUTIONS:

7.1   Health and Safety Data Sheets and the Control of Substances Hazardous to Health Regulations 2002 (COSHH) risk assessments for the works should be deposited with the purchaser and be maintained on site by the installer.

7.2   Do not get in eyes, on skin or on clothing. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

7.3   Avoid breathing vapour or mist.

7.4   Avoid release into the environment.

7.5   Keep in the tightly closed original container. Do not reuse the container.

8. SAFETY CLOTHING & EQUIPMENT:

The following safety clothing and equipment must be worn **AT ALL TIMES**:

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Eye Protection: Safety Glasses, Goggles, Face Shield.

Skin Protection: High Visibility Jacket, Hard Safety Helmet, Closed Safety Boots.

Respiratory protection: Use a properly fitted, air purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.