



FEATURES/BENEFITS

- ✓ Suitable for concrete and steel surfaces
- ✓ High chemical resistance
- ✓ Protects concrete against sulphate attack of wastewater
- ✓ Increases durability of concrete and steel
- ✓ Suitable as an internal or external coating
- ✓ Suitable for permanently immersed or buried structures

DRI-GARD SW 180

High performance, chemical resistant epoxy tar coating

DRI-GARD SW 180 is a two-part, High solids, chemical resistant, reaction hardening coal tar epoxy coating, in combination with mineral fillers. **DRI-GARD SW 180** can be used in sewage treatment plants, manholes exposed to sewage water, immersed piers, ballast tanks, and so on. It can also be applied as an internal or external coating for permanently immersed or buried structures, and bonds well to concrete and steel surfaces.

APPLICATION AREAS

- ✓ Sewage treatment plants
- ✓ Manholes
- ✓ Immersed piers
- ✓ Steel and concrete silos
- ✓ Ballast tanks
- ✓ Marine structures
- ✓ Steel protection



DRITECH CHEMICALS SDN. BHD. (1184082-K)

23-3A, Oval Damansara, 685, Jalan Damansara, 60000 Kuala Lumpur, Malaysia
TEL: +603 7735 6015, FAX: +603 7735 6016

Product Data

Appearances / Colors	Black
Packaging	25 kg set (Parts A+B)
Storage	12 Months from date of production
Storage Condition	Dry conditions at Temperature between +5 - +30 °C. Keep away from direct sunlight.

Technical Data

Origin	Coal tar epoxy
Density	1.2-1.3 kg/L mixed resin
Solid Content	85% ± 5% by volume
Temperature Resistance	Continuous: +90°C Non-continuous: +120°C
Chemical Resistance	Good against the immersion, fumes & splash/spillage against acids, alkalies, solvents, salts and water. Not suitable for the immersion in aromatic/ketone solvents and strong oxidizing acids.
Mixing Ratio	Parts A:B = 4:1 parts by volume

Application conditions

Consumption	0.3L/m ² per coat (2 coats-3coats) for 500microns Practical coverage rate can vary depending on application method, temperature, profile and porosity of the substrate.
Dry Film Thickness	Approx. 500 micron (wet) / 425 micron (dry)
Potlife	6 – 8 Hours (at +23°C)
Intercoat Periods	6 – 24 Hours The waiting time between applications depend largely on temperature and weather conditions. Lower temperatures increase the minimum & maximum time. Light grinding of the previous coat followed by a thorough de-dusting can increase the bonding between coats
Final Drying Time	24 – 48 Hours
Application Temperature	+10 °C min. / +35 °C max.

SUBSTRATE

Concrete:

New concrete should be cured for at least 14 days and should have a compressive strength ≥ 20 N/mm². It must be dry, sound and gripping, free of cement slurry, dust, loose and friable particles and other contamination. Concrete surfaces should be prepared by thoroughly mechanically wire-brushing, abrading, scarifying or preferably by high pressure water/sand blasting. This is particularly important in case of underwater exposure. Large holes, cavities, blow-holes or irregularities should be patched/filled up with a suitable adhesive or patching mortar, such as DRI-PATCH EP 80.

Steel:

Steel surfaces must be dry, free of oil, grease, dirt and any other contaminants. For immersion service, sandblast cleaning is required to remove all surface contaminants (paint rust, mill scale, etc.) from at least 95% of surface area of any section. For non-immersion service, a commercial blast cleaning is required to remove almost all rust, mill scale and foreign matter (the remaining surface should be greyish in colour); power tool cleaning is acceptable with specific recommendations. Coating in all cases with prepared metals must proceed without delay and certainly within 4 hours of preparation. For heavy mechanical exposure, a suitable primer, such as the DRI-GARD FR series, is highly recommended.

APPLICATION

Apply by airless spray, conventional spray, brush or roller.

Depending on surface condition (roughness, porosity, etc.), material consumption for the first application on concrete may be higher. Consumption is the same for airless spray applications as by brush.

TOOLS

Clean all tools and application equipment with thinner immediately after use. Hardened and/or cured material can only be mechanically removed.

MIXING

Stir part A (base component) thoroughly prior to application. Add part B (hardener) and mix thoroughly with an electric stirrer using up and down movements. The mixed material can be used immediately.

LIMITATIONS

- ❖ Do not apply to surfaces in contact with potable water.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.