



TUBOSIDER

GRUPPO RUSCALLA

UNITED KINGDOM LTD



TRENCHCOAT Heavy-gauge, protective film withstands the elements for long-term protection of storm drains, culvert systems and stormwater attenuation tanks

THE PROOF IS IN THE TESTING

For more than 30 years, Dow has conducted extensive performance testing on this heavy-gauge protective film.

One laboratory study used microscopic and infrared microspectroscopic analysis of CSP samples coated with **TRENCHCOAT** protective films that had been in service for up to 22 years. The samples were examined for cracking with an optical microscope. In all samples, the majority of the **TRENCHCOAT** protective film coating (effluent side) was in

good physical condition. None of the micrographs showed evidence of chemical degradation or cracking, although some of the samples did show evidence of physical abrasion to the exposed surface.

In the study, Don Waters, P.E., vice president of Corrpro Companies, Inc., states, "Since we have not seen any measurable degradation, we can only predict a long service life for CSP protected with the **TRENCHCOAT** polymer film. We cannot find any data to suggest that this pipe coating would not provide at least 100 years of service life."

SPECIFY TRENCHCOAT FILM

To ensure that the corrugated steel pipe you specify for your next project is coated with **TRENCHCOAT** protective film, ask for: "Corrugated steel pipe, coated on both sides with a protective polymer coating conforming to ASTM A 742 and AASHTO M-246. The polymer coating shall be a minimum 250 microns thick. The polymer shall be composed of polyethylene and acrylic acid copolymer - labelled **TRENCHCOAT** protective film."

SUPERIOR ABRASION RESISTANCE

CSP coated with **TRENCHCOAT** protective film is able to withstand sand clay run-off and gravel bedload without losing its adhesion to metal.¹ An independent study was conducted by the Ocean City Research Corporation that used their most severe abrasion test methodology. The study showed that CSP coated with **TRENCHCOAT** film possessed superior abrasion resistance over metallic coatings, asphalt dipped coatings, and polymer-modified asphalt coatings.

SUPERIOR BONDING

TRENCHCOAT protective film bonds to steel both chemically and physically. Through this

bonding, it becomes an integral part of the galvanised steel pipe, able to out perform asphalt coating materials. **TRENCHCOAT** film exhibits greater than 10 times the adhesive peel strength when compared to asphalt.

EASY INSTALLATION

TRENCHCOAT protective film adds virtually no weight to sections of CSP. As a result, pipe sections protected with this film can be handled more easily than heavier concrete or asphalt-coated corrugated pipe. **TRENCHCOAT** film also resists damage due to normal handling and installation - much more so than asphalt. And, unlike asphalt. **TRENCHCOAT** film is not affected by extreme cold or heat found during winter and summer installation.

Even when **TRENCHCOAT** film is mechanically damaged, a study showed that the normal delamination is no more than 3mm.

SUPERIOR CORROSION RESISTANCE

TRENCHCOAT protective film resists virtually all corrosion, such as acids, salts, and alkalines commonly found in today's storm drains and culvert systems.

THE STRENGTH OF STEEL. THE CORROSION RESISTANCE OF CONCRETE

The Dow Chemical Company provides a winning combination. You can have the strength, cost effectiveness, and the lighter weight of galvanised corrugated steel pipe (CSP), while also having the resistance to corrosion and abrasion of concrete. CSP that is manufactured with **TRENCHCOAT** heavy-gauge protective film combines the benefits of steel and plastic.

TRENCHCOAT film is a tough, heavy-gauge film with at least 250 microns thickness. It can be laminated to the inside and outside surfaces of CSP by qualified laminators. The laminated steel coil is corrugated and formed into pipe of various diameters to meet the needs of your specific application.

TRENCHCOAT protective film gives CSP resistance to corrosion and abrasion that is superior to aluminising, fibre-bonded asphalt, PVC plastics, and coal-tar formulations. CSP coated with **TRENCHCOAT** film is lighter than concrete and asphalt-coated pipe, making it easier to transport, handle, and install. In addition, CSP that is protected with **TRENCHCOAT** film can withstand abuse during fabrication, handling, installation, and use.



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