

Produkt Information

#977W

Underwater curing ETS URETHANE MATIBA 977W, waterproofing/ anticorrosive work

General information

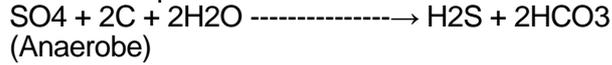
ETS URETHANE coating (MATIBA 977W) is a waterproofing product which is mixed the main materials of urethane resin or epoxy resin with colorants. This membrane forms a flexible and impermeable barrier to water, ice and wide range of chemicals. It has no solvents, no volatile organic content and is insoluble in water.

Why the anticorrosive coating is needed

The anticorrosive against water including chemicals is partially mentioned in the ACI but it is also written that it is hardly applied to the general sewage disposal plant. If there is possibility of H₂S gas leaking, the necessity of anticorrosive coating is getting increased as a safeguard against accidents. In general, waste water includes the organic matters such as sulfates and sulfur, and sulfuric acid (H₂SO₄) is formed by atmospheric oxidation of sulfur dioxide in the presence of water through the following steps.

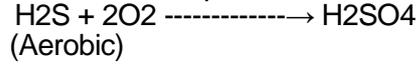
Sulfate Reducing Bacteria

The first step

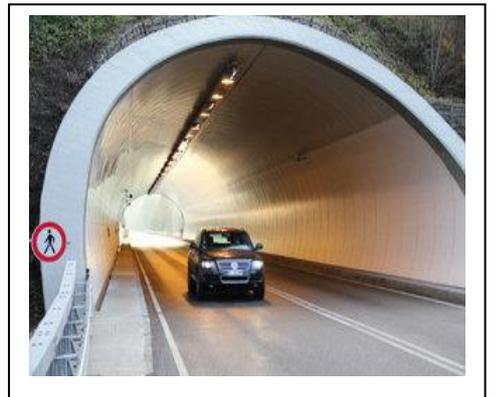
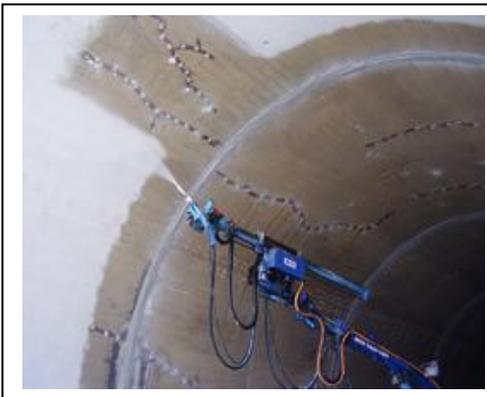


Sulfur-Oxidizing Bacteria

The second step



The above reactions are mainly occurred on the surface of water due to the atmospheric oxidation by anaerobe and aerobic reactions. H₂S gas does not seriously damage structures if the place is well ventilated since it spreads rapidly into the air. If the place is covered with pavement or completely sealed, H₂S gas is easily formed and then it corrodes the concrete and promotes biodeterioration. Water sterilized with chlorine in filtration plants causes the corrosion of concrete since the chloric gas evaporates and produces hydrochloric acid by reacting with oxygen and water in the air. Therefore, acid tolerant anticorrosive work should be done for the extended life limit and the safety at the place where can be damaged by the acid due to the structure type or ventilation. The ETS URETHANE MATIBA 977 W coating or lining from anticorrosive materials naturally waterproofs the structures.



By the way: All our products are available for the aviation , industrial and Military .. For more information, please contact ETS

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ETS URETHANE MATIBA 977W coating application

(1) Component

ETS Urethane coatings (MATIBA 977 W) are used as ambient cure coatings, made of the urethane resin and epoxy resin, added to colorants.

(2) Production

Urethane and epoxy resin has excellent adhesion to various metal substrates. Their low VOC and water cleanup makes them a natural choice for factory cast iron, cast steel, cast aluminum applications and they are used in industrial tooling applications to produce molds, master models, laminates, castings, fixtures, and other industrial production aids.

2 part urethane coatings are used as ambient cure coatings. Most common urethane and epoxy resins are produced from a reaction between epichlorohydrin and bisphenol-A.

(3) Description

ETS -Urethane coating is a powder coating system which does not require a solvent. The coating dries quickly providing a tough, UV resistant, protective coating with excellent ultimate hardness, and good mar and abrasion resistance. Also, it has high heat resistance and corrosion resistance. Epoxy resin is also used for interior and exterior coatings but it cannot be used for sealed places or high humidity locations such as concrete since it is soluble in water. Therefore, it cannot be applied at reservoir, below the waterline. High performance of the urethane coatings makes it applicable to offshore and marine related applications.

Our specialized MATIBA 977W coating system should be followed by the instructions for better result.



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