Press Release

Solvay Hall 1 Booth #318 | European Coatings Show 2019

Solvay develops sustainable Halar® ECTFE anti-corrosion coating system

Bollate, ITALY, March 19, 2019 --- Solvay’s new waterborne Halar® ECTFE coating system broadens metal corrosion prevention applications for the chemical processing industry. The coating system is comprised of a high adhesion primer and topcoat and is easily applied using standard liquid spray equipment.

Solvay’s Halar® ECTFE powder coatings have been used for corrosion prevention for over 40 years for equipment in a range of industries including acids, mining, pulp and paper, pharmaceutical, food and beverage, and semi-conductor, among others. The new waterborne Halar® ECTFE liquid coating technology expands the range of end-use applications to those that are difficult or impossible to powder coat. This includes complex shapes, uneven surfaces, oversized vessels, pipe interiors, tanks and containers. Moreover, it provides engineers an alternative protective metal coating option to corrosion resistant alloys (CRAs).

The new liquid coating technology provides the same unique combination of Halar® ECTFE properties that delivers long-lasting performance and includes excellent chemical resistance, outstanding permeation resistance, exceptional surface properties, excellent adhesion and high purity.

“Sustainability was the compelling motive and driving force leading to the significant research and technological development of Solvay’s new waterborne Halar® ECTFE liquid coating system,” says Brian Baleno, global business development manager Industrial, Energy & Environment at Solvay’s Specialty Polymers global business unit. “The environmentally-friendly, ultra-low Volatile Organic Compounds (VOC) and Hazardous Air Pollutant (HAP)-free formulation helps meet stringent regulatory customer needs. Waterborne finishes provide greatly improved work environment conditions on the production line and for sprayers and can also help lower costs in relation to equipment clean-up which relies on water and inexpensive cleaning agents.”

Solvay’s waterborne Halar® ECTFE liquid coatings, which can also be used without the primer, can be applied quickly, easily and uniformly in a range of thicknesses to meet requirements for various service conditions. They can be applied to an extensive range of substrates such as metals, glass, masonry, polymers and wood using most types of application equipment, including spray and dip coating. In addition to its high chemical resistance, it is hydrophobic with exceptional resistance to strong acids and bases (pH 1-14) and is not affected by any known solvent up to 150°C (302°F).

* Halar is a registered trademark of Solvay.

Solvay is an advanced materials and specialty chemicals company, committed to developing chemistry that addresses key societal challenges. Solvay innovates and partners with customers worldwide in many diverse end markets. Its products are used in planes, cars, batteries, smart and medical devices, as well as in mineral and oil and gas extraction, enhancing efficiency and sustainability. Its lightweighting materials promote cleaner mobility, its formulations optimize the use of resources and its performance chemistries improve air and water quality. Solvay is headquartered in Brussels with around 27,000 employees in 62 countries. Net sales were €10.3 billion in 2018, with 90% from activities where Solvay ranks among the world’s top 3 leaders, resulting in an EBITDA margin of 22%. Solvay SA (SOLB.BE) is listed on Euronext Brussels and Paris Bloomberg: SOLB.BB - Reuters: SOLB.BR), and in the United States its shares (SOVL) are traded through a level-1 ADR program. Financial figures take into account the planned divestment of Polymides.

The new sustainable waterborne Halar® ECTFE liquid coating technology, easily applied using standard liquid spray equipment, broadens the range of end-use and provides engineers an alternative protective metal coating option to corrosion resistant alloys (CRAs). This opens-up applications in the chemical processing industry that were inaccessible due to the difficulty of using powder coatings and include complex parts, uneven surfaces and those that are difficult to access, oversized vessels, pipe interiors, tanks and containers.

Photo of Accoat A/S application courtesy of Solvay