The most effective solution is to line the tanks of the product carriers with MarineLine® 784. This coating uses a tightly knit, cross-linked organic-inorganic polymer structure to create a nearly impervious barrier. The coating resists chemical and corrosive attack from a wide range of aggressive cargoes and assures product purity from port to port, virtually eliminating tainted cargoes from occuring, a real problem for conventional coatings that are trying to carry biofuels and other cargages such as CPPs, PFADs, and methanol.

A proven resource
MarineLine® 784 is already the chosen coatings solution in the chemical tanker industry, carrying thousands of different types of aggressive chemicals, including the full range of IMO chemicals. Many benefits separate MarineLine® 784 from other types of coatings, and also from stainless steel tanks. These include ease of cleaning, assurance of high cargo purity, and the flexibility to carry and then switch many different types of cargoes. The market for MarineLine® 784 continues to expand as more shipowners and chemical producers in the industry realise the high performance and versatility of this protective coating for handling hazardous cargoes.

A ‘green’ coating
The MarineLine® 784 cargo tank lining system delivers on green principles that have become so necessary in today’s business environments. The extremely smooth, hard, slick surface of MarineLine® 784 makes tank cleaning an easy process. During port changeover, no extensive cleaning chemicals are needed to wash the tank walls, thus greatly reducing the use of cleaning chemicals, requiring less fuel consumption for cleaning equipment, and lowering emissions, all excellent environmental advantages. Faster cleaning also leads to prompt turnaround, so chemical carriers can go back into service quickly, maximising the usage of the vessels, another green benefit.

MarineLine® 784 is provided with a semi-gloss finish, in either standard grey, or a new ivory colour. The coating is offered in 5 gallon (19 litre) and 1 gallon (4 litre) kits with catalyst.

Proper application a key
One of the most important aspects to the success of MarineLine® 784 is proper preparation and application. APC has developed a six-step application programme to ensure the tanker owner has many years of profitable service with the vessel. These steps include:

1. Pre-blast preparation
2. Blasting
3. Spray application
4. Inspection
5. Heat cure, and
6. Final inspection.

Not all other tank coating manufacturers employ these steps; however, they have been proven very effective for MarineLine®.

Every coating faces stringent problem areas within a cargo tank. In certain locations, breakdowns may be more prevalent; areas where excessive stress is caused by structural issues, such as weld seams, edges, corners and others. That is why it is vital to ensure surface preparation is done in accordance with recommended specifications, and care is taken to avoid contamination during the coating application.

Following the pre-work, blasting and application phases, the cargo tanks are heat cured with forced hot air, to exacting specifications, to fully cross-link the coating to provide unmatched chemical resistance. Inspection of the coating process is performed during the entire process of the application by experienced, qualified personnel, to ensure the cargo tanks have been coated to high quality standards. After final inspection and approval, the visual is ready to carry cargoes recommended by the coating manufacturer leaving the shipyard.