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Alexander Boytsov is the CEO of Scientific-Production Association “SpecPolymer” specializing in production and selling of polymer protective coatings. With his help the protective coatings based on polyurea and technologies for applying them to the valves and fittings, pipe components of pipelines have been developed and implemented for the first time in Russia. Alexander leads the working group of the Protective Coating Committee of the Self- regulating Organization - Nonprofit Partnership Association of Corrosion Protection «SOPCOR» (“SOPCOR”), which unites the main suppliers of paint and varnish and insulation materials to the oil and gas market of Russia. Under his guidance important branch standard technical documents which enable to improve execution of works on protection against corrosion have been developed, and thus the reliability of operation of a unified gas transportation system of Russia. He is the author of over 10 scientific publications.

Prospects of development of protective coatings based on polyurea

Due to the complex of unique performance characteristics anticorrosive coating manufactured by Scientific-Production Association “SpecPolymer” based on polyurea have taken a leading position in the market of high-quality anticorrosion coating of oil and gas industry of Russia. “SpecPolymer” conducts intensive research on the modification of coatings based on polyurea to improve their reliability and durability for the purpose of using them in the hardest conditions.

The world practice of production of protective coatings shows that the introduction of mineral fillers in the polymer matrix greatly increases the performance characteristics of coatings. Though such systems characteristics are to a large extent determined by affinity between polymer and filler. Due to the high reactivity of the polyurea, introduction of polyurea particles in polymeric matrix presents certain difficulties. That appeared to be key aspect of the previous research, performed in co-authorship with the employees of the Russian Academy of Sciences.

As a result of this research it was created complex manufacturing technology of polyurea and natural montmorillonite coatings on the basis of specially developed method. This technology provides anticorrosion protection of gas and oil sea-lines and underground pipelines, operated at temperature in the range from minus 60 to plus 80°C. Such protection exceeds their analogs more than 3 times that is used in actual global practice.

