

INTERNAL PROTECTIVE COVERS AND INSULATIONS OF METAL AND CONCRETE RESERVOIRS, FACILITIES FOR DESALTED WATER AND WASTE WATERS

For preparation one uses protective systems (covers, ground coats, laminates) on base of the following materials:

- vinyl-ester ground coat modified with rubber
- polyester and vinyl-ester resins
- elastic vinyl-ester resin
- polyurethane vinyl-ester resin
- epoxide materials
- epoxide tar materials
- special materials of the glassflake type
- vinyl materials

Basic features of the protective systems:

The protective systems of the above mentioned materials combined in different schemes of performance and in compliance with different factors (compatibility of the materials, exploitation requirements etc.) are characterized with the following indicators:

- Guaranteed chemical resistance in a wide range of aggressive media (Ph 1-14) within a temperature range from -100 to +100°C - water, acids, bases, salts, gases, petroleum products.
- Appropriate physical and mechanical indicators similar to the ones of the base
- Possibility for applying and forming of protections within a temperature range from 0 to +35°C both on dry and on moist surfaces
- The protective systems produce no harmful emissions of potassium, magnesium, iron and others which change the parameters of the salt water
- Repair suitability of the protective systems

Types of protective systems:

- Covers (ground coats, varnishes)
- Combined systems
- Covers ground coats
- Covers laminates
- Covers ground coats laminates

Application:

- Metal and concrete reservoirs for desalted and waste water of atomic power plant, steam power plant, ions-exchange filters, purification facilities and stations - civil, industrial of the chemical and metallurgy industry, oil refineries, battery plants, food industry.