

## POLYMERIC ANTICORROSIVE COATING TO PROTECT THE FACILITIES FOR CHEMICAL TREATMENT OF TPP AND CHP WATER



Protection from corrosion: internal and external areas of filter pipes (left); H-cationite filter reservoir (central); and demineralized water tank (right)

### Areas of Application

The polymer corrosion-resistant coating is designed to protect the working surfaces of all components of chemical water treatment facilities, which are in contact with liquid and gaseous aggressive media and enables extending service life; protecting metal surfaces from acids, alkali, and other aggressive environment; decorating/finishing the surface; and protecting from unfavorable atmospheric factors, water and aqueous salt solutions

### Specification

Operating temperature range, °C	-50...+150
Adhesion to metal membrane, points	≥1
Hardness by ME-3 pendulum, c. u.	0.3–0.5
Membrane strength:	
Impact strength, J	≥5
Bend strength, mm	1–3
Moisture permeability, %	0.6–1.0

### Advantages

Increased chemical resistance, high moisture resistance, elasticity and mechanical durability, maintainability; the durability of this coating is 10 years longer than that of epoxy and reaches 12-15 years

### Stage of Development.

#### Suggestions for Commercialization

IRL7, TRL8

Manufacture, warranty service, and staff training, upon request

### IPR Protection

IPR1

### Contact Information

Halyna O. Deparma, A. Podgorny Institute of Mechanical Engineering Problems of the NAS of Ukraine, +38 057 349 47 64, +38 067 95 706 94, e-mail: ozis@ipmach.kharkov.ua