

FLOOR COVERS

Description:

The covers represent systems of resins, hardeners, ground coat, quartz fillers done in the following technological sequence:

- ground coat, resin, quartz filler (sprinkle)
- resin, quartz filler (sprinkle) etc. depending on the requirements on the thickness of the finishing layer.

Designation:

For protection from corrosion and mechanical loads (low, average, high) of different concrete, cement, ceramic surfaces.

Smooth cover (with finishing sealing layer)

Rough cover (slightly rough, moderate rough, fine, rugged).

Thickness of the layers - 2-8 mm.

Scheme of the cover:

1. Ground coat
2. Leveling ground coat for concrete (in case of necessity)
3. Single, bi and multilayer sequential application of resins with excessive sprinkling of quartz sand during the jelling of the thermo reactive resins or during air drying of the resins.
4. Removing of the superfluous sand.
5. Sealing with finishing layer

Tentative consumption ratio:

2-2.1 kg/m² for thickness 1 mm

including 0.8 - 1.2 kg resin

1.5 - 2 kg quartz sand (in excess)

Chemical resistance of cover from polyester and vinyl-ester

Sulphuric acid - up to 80% (periodically up to 97%)

Salt acid - up to 37%

Sodium base - up to 50%

Fluor hydrogen acid - up to 20%

Sulphuric dioxide - up to 100%

Chlorine - 100%

Nitric acid - up to 65%

Sulphuretted acid - up to 10%

Temperature range of exploitation from -30 to +100°C

Physical and mechanical properties of polyester, vinyl-ester and vinyl covers:

- compressive strength MPa - > 100

- tensile strength MPa - > 20

- bending strength MPa - > 35

Ratio of linear thermal expansion:

$2.5 \times 10^{-5} \text{ cm} \cdot \text{cm}^{-1} \times \text{C}^{-1}$

Eraseability on Taber: 1000 gr./1000vol., %-0,38

COMPONENTS AND MATERIALS FOR FLOOR COVERS (STRENGTHENED)***Ground coats:***

- polyester ground coat
- vinyl-ester ground coat modified with rubber
- epoxide ground coat
- epoxide ground coat for moist concrete (moisture more than 4%)
- vinyl ground coat
- epoxide vinyl ground coat
- epoxide tar ground coat

Resins:

- polyester
- vinyl-ester
- vinyl
- epoxide
- polyurethane-vinyl-ester
- acrylic
- water dispersion on epoxide base

Fillers:

Quartz sand with size of the particles - 0,1-1,00 mm

Use:

Indoor and outdoor floors, galvanic workshops of battery plants, boiler-baths and oval surfaces of workshops for acids and bases of steam-power plants, nuclear power plants, chemical and fertilizer plants, petrochemical and petro-processing plants, metallurgical factories, pharmaceutical and machinery construction factories, textile storehouses, terminals, loading stations, unloading sites.