

QIS POLI SF

HIGH-PERFORMANCE, TWO-COMPONENT, MACHINE-APPLIED PURE POLYUREA INSULATION COATING



DESCRIPTION

QISPOLISF is a two-component, elastic, hot-applied, solvent-free, liquid and thixotropic, pure polyurea insulation coating.

USAGE AREAS

- Industrial floors
- Terraces, balconies and roofs
- Watertanks, pipes, pools
- In wastewater treatment plants
- Roads, bridges, tunnels
- In the chemical and energy sector

CHARACTERISTICS

- It cures quickly.
- It has high adhesion strength to different surfaces.
- It is 100% solid content.
- It can be applied horizontally and vertically.
- It has high crack covering capacity.
- Jointless coating is applied.
- It is resistant to chlorine, alkali and chemicals.
- It has high resistance to freezing.
- It is resistant to abrasion and impact.
- It is UV resistant.
- It does not create a moisture barrier.
- It is not toxic. It is environmentally friendly.

APPLICATION METHOD

Surface Preparation

- Before application, the surface should be free from adhesive substances such as dust, oil, paint, curing.
- Defective places and gaps on the surface should be repaired with appropriate materials and the surface should be leveled.
- The humidity on the surface should not be above 4%.
- The concrete should be at least 28 days old and have a strength of at least 15N/mm².
- Before application, the surface should never be watered and the surface should be dry.

Lining

Primering before application;

- Bright and flat surfaces should be primed with QIS EPO ASTAR NT or QIS PU ASTAR 2K EX
- Normal surfaces should be primed with QIS EPO ASTAR SF or QIS PU ASTAR 1K.
- The materials should be applied within 12-24 hours after priming.

Heating and mixing

- Components A and B should be heated to +25 °C and mixed thoroughly before application.

Application

QIS POLI SF is applied to the surface in a single layer with a special spraying machine with a volumetric ratio of 1:1, operating at high temperature (70-80°C) and pressure (150-200 bar). For a high-performance coating, the pressure and temperature must be constant throughout the application. Do not walk on the material for 24 hours after application. The coating material is UV resistant, but can undergo color change in daylight after curing.

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This color change does not affect the life or performance of the coating. If color stability is desired, the QIS ALB UV aliphatic topcoat should be applied within 12 hours after the basic coating.

Application Conditions

- In extremely hot, rainy or windy weather, or if the ambient and surface temperature is below +10°C or above +30°C, the application should not be made.
- In applications to be made at appropriate temperatures, the materials to be used should be brought to the application area 1-2 days in advance and stored and it should be ensured that they comply with the ambient conditions.
- In applications to be made in extremely cold weather, it should be ensured that the ambient and ground temperatures are increased with the help of heaters, and the packages should be conditioned at +20°C and made ready for use in order to increase the workability of the material.

CONSUMPTION

1.5-2.0 kg / m²

PACKAGING AND STORAGE

470 kg set

250 kg. barrel (A), 220 kg. barrel (B)

In its original packaging, when stored in ventilated, dry and protected environments at +10°C/+25°C, protected from sun, rain and frost, its shelf life is 1 year from the date of manufacture.

SAFETY PRECAUTIONS

Gloves, protective clothing, masks/goggles should be used during mixing and application, and contact of the product with eyes, mouth and skin should be prevented. In case of contact with skin, it should be washed with plenty of water, and in case of contact with eyes and swallowing, a doctor should be consulted.

TECHNICAL DATA

Material structure	Pure Polyurea
Viscosity (cP)	600-800(A), 300-600(B); (ASTM D4878) ~1.00 kg/lt (A+B); (ASTM D792)
Specific gravity	D4878) ~1.00 kg/lt (A+B); (ASTM D792)
Solids	100%
Hardness (Shore A)	~90 (ASTM D2240)
Solvent	Solvent-Free
Elongation at break	> 400% (ASTM D638)
Tensile strength	>15 N / mm ² (ASTM D638)
Tear resistance	>25 N / mm ² (ASTM D638)
Adhesion	> 2 N/ mm ² concrete, > 6 N/ mm ² steel
Abrasion resistance	<125 mg (TABER)
Moisture transition	0.8 gr/ m ² /hour (ASTM E96)
Heat resistance	-40°C / +80°C
Shock heat resistance	+400°C
Encrustation:	15-30 seconds
Re-coating	> 6 hours
Final curing:	24 hours
Color	White. Colourable according to demand

The above values are given at +20°C and for 50% relative humidity. High temperatures shorten the time, low temperatures prolong the time.