QIS FLEXER HALF

CEMENT AND ACRYLIC POLYMER BASED, TWO COMPONENT, SEMI-ELASTIC WATERPROOFING MORTAR







DESCRIPTION
QIS FLEXER HALF is a polymer reinforced, non-shrink, high-performance, semi-elastic waterproofing mortar.

USAGE AREAS
- In vertical and horizontal applications in indoor and outdoor spaces,
- It is used to ensure water impermeability under screed and ceramic in balconies and wet areas.

CHARACTERISTICS
- QIS FLEXER HALF provides waterproofing as a permanent part of the applied structure.
- It adheres strongly to concrete, screed, mosaic and similar mineral-based surfaces.
- It can be applied to interior and exterior facades.
- It makes an elastic coating.
- It does not shrink and does not crack.
- It is used in structures that may crack or structures that still have cracks.
- It does not prevent the applied structure from breathing.
- It is used on horizontal and vertical surfaces.
- After the product is completely dried, it is not affected by freezing and thawing.
- It can be applied to damp surfaces.

APPLICATION METHOD
Surface Preparation
- Before application of QIS FLEXER HALF, the surface should be free from dust, oil, paint, curing and other substances that are unrelated to the structure and prevent penetration.
- The surface should be roughened to ensure adhesion.
- Surfaces to be applied should be damp, dry surfaces should be moistened and saturated with water before application. Care should be taken that there is no puddle on the surface.

Mixing
- QIS FLEXER HALF has two components.
- First, component B (liquid) is placed in a clean container.
- Then, all of component A (powder) is slowly added to component B and stirred continuously for 4-5 minutes.
- The mixed material is rested for 5 minutes and again mixed for at least 3 minutes and made ready for application.
- The material should be used within 1 hour after it is mixed and ready for use. (at 20°C)

Application
- QIS FLEXER HALF is applied to the concrete surface with 1-3 layers of brush to make 1-1.5 mm thickness in each layer.
- The thickness of the mortar applied should be around 2 mm.
- Elastic synthetic mesh (4x4 mm) or armure felt can be used between layers for higher strength, strength and flexibility.
- At corner joints, chamfer bands should be used to increase strength and prevent cracking.
- QIS FLEXER HALF becomes resistant to rain 24 hours after application, reaches its final strength after 28 days.
- The applied product should be protected against external factors for 24-48 hours.

Application Conditions
- After application, the surface should be protected from rain and frost for at least 24 hours.
- In cases where the ground temperature is expected to fall below 5°C within 24 hours after the application, the application should not be performed.
- In high temperature environments, the application should be done quickly and uninterruptedly in the morning and evening hours, and the material should be kept in the shade.
- In low-temperature environments, the application should be started at noon, provided that the temperature is below 5°C and the surface is not frozen, the material should be kept in a hot environment and the surface should be protected from frost after application.

CONSUMPTION
2,5 - 3 kg/m^2 (average 2 mm thickness)
1st layer ; 1.60 kg / m^2
2nd layer; 1.40 kg / m^2

PACKAGING AND STORAGE
25 kg Set (20 kg A (powder) + 5 kg B (liquid))
In its original packaging, when stored in ventilated, dry and protected environments at +5°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

Floor temperature to be applied	+5°C / +35°C
Service temperature	-20°C / +80°C
Adhesion to concrete	> 1,5 N/mm^2
Processability time	1 hour (20°C, 50% humidity)
Density	1.65 ±0,05 kg/lt
Compressed water strength	5 bars positive
Setting time (20°C)	6 hours first setting, 24-hour final setting
Capillary water absorption	≤ 0.1kg.m^2.$hours^{0,5}$

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