

# ILIA

HIGH TECH COMPANY



[www.iliahightech.com](http://www.iliahightech.com)

[Info@iliahightech.com](mailto:Info@iliahightech.com)

Tel : +982162999653

Adress : 3<sup>rd</sup> floor, No 252, Fatemi St, Tehran, Iran

## Bluzed+



Powder Bluzed + is the most advanced type of crystalline waterproofing material with a high penetrating power into concrete capillary tubes, which is used to waterproof and protect concrete against the penetration of water and harmful chemical materials.

This material can be evaluated based on the following standards

**BS EN 12390-8 | BS 1881-122**

### properties

- High penetrating power into concrete
- Excellent bonding with concrete
- Save the waterproofing properties and chemical resistance of concrete during cracking or surface destruction of concrete
- Resistant to the invasion of all kinds of destructive chemical ions and corrosive



- Resistance in acidic and alkaline environments
- Save concrete and reinforcement against corrosion
- Capability of self-healing of cracks
- No need for renewal and repair during the use of the structure
- Failure to prevent concrete from breathing
- Speed and ease of implementation
- Applicability in contact with drinking water

## Application

1. stopping the leaking of executive seams and cold seams
2. Fixing dampness and permeability of all concrete structures
3. Protection and waterproofing of the following structures:
  - Dams and powerhouses
  - Tunnels, docks and water transmission lines
  - Water and sewage treatment plants
  - Potable water tanks and septic tanks
  - Underground structures and foundations
  - Manholes
  - pools
  - Aquariums and fish breeding ponds

## Dosage

The consumption amount of Bluzed+ is about 800 to 1200 gr, per square meter depending on the porosity and permeability of the substrate.



## Mixin

Mix 25 kg of powder Bluzed+ with about 90 lit of water, Continue the mixing process to obtain a homogeneous mixture.

**Note 1:** for starting the mixing process, add the powder to the water while the electric stirrer (drill + blade) is on.

**Note 2:** mix the amount of Bluzed+ with water that will be consumed in less than 30 minutes.

## Procedure

Concrete surfaces must be free of any loose particles, grease, dust, paint, and other coatings before implementation. It is better to do this operation by use of electric wire brush sandblasting. All the surfaces on which the Bluzed+ material will be applied will be moistened with fresh water. All the cold and wet joints larger than 1 mm should be opened in a V shape (width and depth of at least 2cm), then by mixing 1000 grams of Bluzed + powder and 400 grams of quartz powder and gently adding water, making putty that using it to repair all the foundation of the column, the seams between the floor and the wall, and opened cracks. Apply the grout obtained by mixing powder Bluzed + and water, by using a brush on the prepared concrete sections in two coats. after the second layer gets wet, start the curing operation by spraying water on the sections for 28 hours.

## Physical and chemical

physical state	powder
color	Gray
Acidity (PH) of 10% solution	5±1
cl	No



## Considerations

- Storage time → 12 months in original packaging
- Maintenance conditions → Closed container, away from moisture, freezing and direct sunlight
- The best storage temperature → +10 to +30 °c degrees
- packaging → 25 kg bag
- Minimum temperature during execution → 5° c

## Protection

- This substance is not in the range of dangerous and harmful substances for health and the environment. However, it should not be swallowed or come into contact with the eyes.
- Gloves, glasses and work clothes should be used during execution.
- In case of accidental contact with the skin or eyes, it should be washed immediately with plenty of fresh water.
- If swallowed, see a doctor immediately.
- Please refer to the safety data sheet (MSDS).
- This substance is not flammable.