

CemenTech C1 Duo

One-Component Crystallized Waterproofing Mortar

Product description:

It is cement based, one-component, brush consistency, red colored, powder and white colored, liquid emulsion waterproofing mortar that is reinforced by polymeric additives, and used in the solution of problems arising from capillary effects. It is used in both internal and external isolation of garages, terraces, foundations and basements. CemenTech C1 Duo creates crystals that don't melt within water when it reacts with water and renders the concrete water-tight permanently upon penetration of these crystals into the capillary vessels of the concrete. It can be also used both from the negative and the positive side.

Application areas:

- Interior and exterior,
- On walls, grounds or ceilings,
- In continuously wet, humid and damp areas such as garage, balcony, terrace and cellar,
- Water tanks, pools, reservoirs and storage tanks,
- In foundations, external walls of cellars, underground and surface construction works,
- In amelioration, restoration and renovation works of old structures

Features:

- Reinforced with polymeric additives.
- Produces crystals that do not melt in water when reacted with water.
- When applied on lean concrete, as soon as getting cured, it silicizes the free lime on the concrete and makes it impenetrable along the edge.
- Resistant to heavy weather conditions.
- Features hydraulic adhesion quality.
- Used in any kind of bonded and plastered surface such as stone and stone-derivative brick, pumice brick, briquette, aerated concrete, limestone, etc.
- Prevents wetness and water accumulation on cement-based plastered surfaces.
- Prevents humidity and moisture permanently and eliminates unpressurized and weak water leakages.
- Protects surfaces against destructive effects of humidity and moisture.
- Inflammable.

Technical data:

Color	Red
Applicable Thickness (mm)	2-6
Dry Unit Volume Weight (kg / lt)	1,3 ± 0,2
Wet Unit Volume Weight (kg / lt)	1,6 ± 0,2
Waiting Time in Container (min)	~ 30
Drying Time (hour)	~ 24
Compressive Strength (28 days) (N / mm ²)	≥ 25
Bending Strength (28 days) (N / mm ²)	≥ 3
Adhesion Strength (28 days) (N / mm ²)	≥ 1,5
Mixing water amount (for 25 kg dry mortar)	6,5 – 7 lt
Application temperature	Between +5°C and +35°C
Resistance of hardened coating	Between -25°C and +80°C

Technical data are approximately provided according to a temperature of + 20°C and a relative humidity of 50%.

Preparing the substrate :

- The surfaces to be coated should be free of adhesive preventive foreign substances such as dust, dirt, mould oil, paint etc.; residues and wastes like cement, plaster and concrete should also be removed.
- The sub-surfaces that are not strong enough to carry themselves e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- Surface should be slightly dampened before application.
- Active water leakages should be clogged before application with Bostik CemenTech X.

Application:

- Powder form Bostik CemenTech C1 Duo Waterproofing Mortar should be poured slowly on liquid component (9 kg) that has been put into a clean container filled with water in suitable ambient temperature and should be mixed by means of a mixer with low cycle until a cluster-free mixture is obtained. Mixture duration should be minimum 5 minutes. The mixture obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.
- The stirred mixture is ready for application after an aging time of 3 min.
- Application should be at least in two layers and should cover the substrate of each layer properly. The first layer is applied with a wall brush; after the first layer is dried completely, the second layer should be reapplied with a wall brush.

After application:

- Freshly applied surfaces should be protected against direct sun light, strong air stream, high air temperature (above +35°C), rain and frost in the initial days.
- Any kind of plaster application on the application surface or ceramic tiling works should be performed 3 days later.

Coverage:

Approximately 1,5 – 2,0 kg/m² per each 1 mm thickness.

Coverage amounts are theoretical values and it is recommended that coverage-controlled sample application is carried out before application.

Package:

Powder component in 25 kg craft bag, 64 bags in 1 palette (1600 kg/palette)

Storage :

- Dry mortar bags should be protected for water, frost and adverse weather conditions.
- They should be kept dry and cool on wooden pallets.
- The torn and opened products should be closed immediately and consumed first.
- Maximum 8 bags should be stocked on each other.
- Shelf life is maximum 12 months conditional to complying with the abovementioned storage conditions.

Risk Marks:

R23/24/25 : Poisonous when inhaled, swallowed and contacted with skin.

Security signs:

S2: Keep out of reach of children.

S3: Keep cool.

S9: Keep the package dry.

S26: Rinse with water thoroughly when contacted with eyes and consult a doctor.

S28: Rinse with water thoroughly when contacted with skin and consult a doctor.

S29: Do not throw in the drain.

S36/37/39: Wear suitable protective clothing, protective gloves and glasses / mask during the operation.

BOSTIK is only responsible for the product quality and cannot be held responsible for its mis-use except for the recommendations regarding where and/or how the product shall be used. This technical bulletin hereby is valid until it is renewed. BOSTIK's right to amend the products in accordance with technical developments is reserved.



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