

Crystal1054(c2) Tile adhesives

Extremely flexible ceramic adhesive
for waterproof



DESCRIPTION

It is a cement based high performance and low slippage waterproofed ceramic adhesive mortar with added polymer and extended open time ,and it is improved further with additional characteristics.

AREAS OF USAGE

It is used to bond materials such as marble ,granite, ceramic tiles which will be used in pools. Or other interior or exterior surfaces plastered with lean concrete, ferro-concrete or cement plaster.

COLORS

Gray, White .

PACKAGE

20 kg. kraft paper bag.

SHELF LIFE

12 months in dry environment and in original packaging.

ADVANTAGES

- Easy to apply.
- Does not slip.
- Its high adherence force.
- It can be processed easily and for a long time.
- Can be used in wet areas such as pools ,turkish baths, saunas ,water tanks.
- It provides water insulation in bonding application in wet areas.
- Thanks to its high polymer content ,has water repellency.
- It can be used when conducting ceramic application on old ceramics .
- Due to its high elasticity ,it is resistant to surface tensions that may occur due to sudden heat changes .can be used in areas where there are sudden heat changes such as cold storages shocking facilities ,outer surfaces of ovens ,and under floor heating systems.

TECHNICAL SPECIFICATIONS

Slip: ≤ 0.5 mm

-After open waiting time :after at least 30 min. ≥ 0.5 N/mm²

-Starting: ≥ 1 N/mm²

-After immersion: ≥ 1 N/mm²

-After Heat Aging: ≥ 1 N/mm²

-After Freeze-Thaw Cycle: ≥ 1 N /mm²

Temperature Resistance: (-40 °C) — (+80 °C)

Reaction to fire class: A1

***The above values have been obtained through laboratory tests and are valid for 28 days of the performance.**

APPLICATION INFORMATION

Application Temperature:(+5 °C) — (+35 °C)

Mixing Ratio : 6-7 it water /20 Kg powder

Usable for : 4 hours

Open waiting time: 30 min

Application thickness : 3-10 mm

Grouting time: 24 hours

Consumption Average: 3 -5 Kg / m²

***These values are valid for 23 °C of temperature and 50% relative humidity . Times periods may vary depending on ambient conditions.**

SURFACE PREPARATION

-The application surface should be made clean from dust, dirt, oil, paint residue, and other similar adherence reducing foreign materials reducing adherence .

-It should be ensure that the application surface is set.

-The surface must be moistened before the application.

-The dusty surface behind the ceramic should be moistened and wiped.

MIXTURE PREPARATION

20kg of Crystal waterproof 1054 is slowly added 6-7 liters of water.It is stirred until a homogeneous mixture is obtained. with a trowel or low-speed mixer, leaving no lumps .The homogeneously mixed mortar id rested for 5 minutes and then stirred again to make ready for application. The prepared mixture should be used within a maximum of 4 hours , and the mixtures that are waiting to be used during this period should be mixed intermittently . Any mortar which has started to harden or has expired should not be used.



APPLICATION

The prepared mixture should be spread on the surface with the flat part of the trowel to ensure good adhesion and then combed with a notched trowel suitable for size of the tile to be used.

Ceramics must be bonded to the combed mortar within 30 minutes. Good adhesion should be obtained by pressing on the laid material by hand and applying force with a rubber hammer.

-Adhesive should be used by applying to small areas ,and any adhesives that delays material bonding and that has started to get crusty should be cleaned by scraping off from the surface.

-A layer with a thickness of 1-2 mm should be formed with a trowel areas where water isolation is required .Corner joints in the application area should be rounded and reinforced with mortar mesh.the bonding process with Crystal waterproof should be started after waiting 24 hours.

-Bonding should be achieved by applying force on the combed mortar within 30 minutes .This period may be shorter in application made in unsuitable ambient conditions such as high temperature ,low humidity ,and wind .Bonding process should not be performed on expired mortar and any such mortar should be scraped off the surface.

-The excess adhesive in the joint gaps should be scraped off before drying occurs, and the mortars on the surface should be cleaned with a damp cloth.

-Applications should not be carried out in temperatures below -5°C.

-Without taking protective measures ,applications should not be made on surfaces that are directly exposed to sun and wind.

-Foreign materials should never be mixed into the mortar.

-After application all used tools should be washed with plenty of water before drying.

-Grouting can be started after 24 hours.

-Tiles bonded with Crystal waterproof 1054 should not be exposed to water for at least 24 hours.

-Depending on the location and the type of ceramic to be applied, double-sided bonding should be done.

***Crystal water proof 1054 white should be used in light-colored ceramic application.**

WARNINGS

Do not inhale the product directly, as it is cement-based. Avoid contact with skin and eyes.

REFERENCE STANDARD

TS EN 12004 -1 C2TES2 Class

C: Cement —based.

1: improved with additional features

T: Reduced slipping feature.

E:Extended open waiting time.

S2: Highly Deformable

