

## PRODUCT DESCRIPTION

**Chester Quartz is a high performance ternary composition consisting of chemically active elements: Base and Reactor as well as quartz filler Chester Quartz Aggregate.**

Thanks to exactly and carefully formula compiling Chester Quartz possesses excellent proprieties and resistant parameters as well as is easy for preparing.

Typical application fields:

- reconstruction of concrete, stone and marble elements,
- protecting of concrete and steel surfaces subjecting onto chemically aggressive agents and abrasive wear,
- repair of constructional elements,
- settling of balustrades and different metal elements in concrete,
- making and repair of machines and devices foundations,
- sealing of reservoirs and sluices,

Chester Quartz possesses its high mechanical proprieties and it is chemical resistant material. Chester Quartz layer is not weld and shrink proof that makes its total tight and it makes impossible penetration of medium. There its adhesion to concrete higher then the concrete resistance. Chester Quartz does not peel off , it is resistant onto carbonization, abrasion and trembling.



## USAGE

### Surface preparation

Chester Quartz is essentially recommended for application onto concrete and similar elements. However, thanks to its high adhesion for metal elements it can be used for metal fittings and tanks. Every surface before Chester Quartz application has to be dry, devoid of old coat and any loose pieces produced by this surface.

New concrete has to be hardened at least 28 days and should be cleaned from so-called "cement wash".

The old concrete surface has to be dry and dust removal as well as cleaned from loose pieces (the best way is through sandblasting). That way prepared surface degrease using **Chester Cleanrex** preparation and then use water to wash away the detergent and leave to dry.

Metal surfaces should be chemically degreased (or with gas burner) and mechanically cleaned (kibbling, sandblasting or using of angular grinders, grinding wheels, abrasive paper and etc.) That way prepared surface degrease using **Chester Fast Cleaner** or **Cleanrex** preparation and then use water to wash away the detergent and leave to dry.

### Ground

Surface for application of Chester Quartz should be ground with activator **Chester Quartz Conditioner** delivered in set. **Chester Quartz Conditioner preparation.**

Whole pack of Reactor ought to be pour to the Base pack and mix exactly to achieve of homogeneous mass. Immediate application on prepared surface is recommended. The whole has to be applying on not larger then 1.15m<sup>2</sup> surface.

In case of mixing small quantities of activator use: 1 Part Base : 1 Part Reactor (by volume and weight).

Conditioning and overcoating must be completed within the times indicated at **the Table 1.**

Chester Quartz can be immediately apply as soon as the first layer (activator) is firm. Maximum overcoating time for application is within 7 hours. After this time the surface of Chester Quartz must be abraded before further application.

### Application

#### Chester Quartz preparation.

Content of appointed packagings Base and Reactor pour to bulk container packaging (bucket) and mix (mechanically mixing is the best way) to obtain of homogeneous mass. In next step add up little by little of the third component - Chester Quartz Aggregate, mixing all the time. Apply the mixed Chester Quartz directly on to the conditioned surface

In case of mixing small quantities of activator use: 2 Parts Base : 1 Part Reactor (by volume and weight).

There is recommended the thickness of a layer for application ca. 5-6 mm. There is necessary to deaerate (through holding down) of this material during application.

Chester Quartz working life (**look at the Table 2**).

The rate of cure will depend on the ambient temperature and the quantity of substrate used (when there is more material the curing reaction speed is higher). When the Chester Quartz Aggregate is in small quantities then the curing process is faster as well.

When applying Chester Quartz to vertical surfaces, the normal maximum thickness obtainable without sagging is 6 mm at 20 °C. However for small areas the thickness will increase.

Chester Quartz can be applied to damp surfaces but its adhesion will be over a dozen percent lower of that obtained on a dry surface.

Chester Quartz can be tinted as required by mixing with typical dye for epoxy resins.

**Allow Chester Quartz to solidify for the following times before subjecting it to the conditions indicated at the Table 3.**

On the flat smooth surface, the coverage rate of Chester Quartz is 1,15 m<sup>2</sup> per **15 [kg]** pack at a thickness of 6 [mm].

### Packing

There are following items in Chester Quartz set of **15 [kg]**:

**Chester Quartz Conditioner** (Base + Reactor) - 0,5 [kg]

**Chester Quartz** (Base + Reactor) - 1,7 [kg]

**Chester Quartz Aggregate** - 12,8 [kg]



TABLE 1

Temperature [°C]	Usable time for applying [mins]
5	300
10	250
20	210
30	180

TABLE 2

Temperature [°C]	Use all material within [mins]
5	90
10	70
20	45
30	35

TABLE 3

	Temperature	
	10 °C	20 °C
Resist pedestrian traffic	18 hours	6 hours
Full mechanical hardness	48 hours	24 hours
Full chemical resistance	14 days	7 days