

# VELOSIT® CP 200

## Cementitious Concrete Primer



### Application fields

VELOSIT CP 200 is a cementitious primer for concrete and masonry. It is designed as bonding bridge for the VELOSIT RM repair mortars on critical substrates. Typical application fields besides others are as follows:

- Priming of concrete and masonry for VELOSIT mortars and screeds
- Prime coat to fill blow holes, honeycombs and surface roughness
- Can be used for vibrated floor systems as a bonding bridge between tiles and mortar bed

### Properties

VELOSIT CP 200 is a shrinkage compensated cementitious slurry with very quick strength development.

VELOSIT CP 200 can be applied by brush or suitable spray equipment.

- Minimal shrinkage/expansion under dry resp. wet curing conditions
- 30 min. working time and 12 MPa compressive strength after 4 hours
- Final strength of more than 45 MPa (6525 psi) after 28 days
- Very good adhesion to concrete and masonry
- Good resistance against aggressive media with a pH range of 3-12 and against soft water with low ion content
- Good sulfate resistance

### Application

#### 1.) Substrate preparation

VELOSIT CP 200 is designed for mineralic substrates like concrete and masonry.

Concrete substrates must be prepared with sand blasting, shot blasting or ideally high pressure water

blasting (> 100 bar/1450 psi) to remove all bond breaking substances. If rebar is exposed

VELOSIT CP 201 must be used instead of VELOSIT CP 200.

Substrate must be rough, open porous and load bearing. The minimum requirement for adhesive strength is 1.5 MPa (225 psi) and for the compressive strength 20 MPa (2900 psi). Before the application of VELOSIT CP 200, dampen the substrate with clean water to a saturated surface dry (SSD) condition. Avoid puddling.

## 2.) Processing

Mixing:

Mix VELOSIT CP 200 with 25 – 30 % potable water, i.e. 5.0 – 6.0 l (1.3 – 1.6 gal.) water per 20 kg (44 lb.) bag. Fill the 25% mixing water (5.0 l per bag) into a suitable bucket and mix the powder with a slow speed drill (300 – 600 rpm) into the water until a lump-free mix is achieved. Add up to 5 % water under stirring until the desired consistency is achieved.

The product is workable for 30 min. at 23 °C.

Apply one coat with a masons brush in crossing applications to the pre-dampened substrate at the specified rate. The VELOSIT mortar or screed can be applied wet in wet onto VELOSIT CP 200

## 3.) Curing

VELOSIT CP 200 does not require long term curing as it reacts relatively fast with water. Overcoat with a repair system as soon as it has gained sufficient strength.

## Estimating

Brush or spray application 1 mm:

VELOSIT CP 200: 1.6 kg\*/m<sup>2</sup>

\* 1.6 kg VELOSIT CP 200 powder + 0,3 kg water, i.e. 1.9 kg mixed material per mm and m<sup>2</sup> (3.3 lbs per 40 mil dft and 10 sq.ft.)

## Cleaning

VELOSIT CP 200 can be removed in the fresh state with water. Once it has cured acidic cleaners like muriatic acid are required.

## Quality features

Color:	gray
Mixing ratio by weight:	100 : 26
Mixing ratio by volume:	100 : 38
Density:	1.6 kg/l
Substrate temperature:	5 – 35°C (40 – 95°F)
Compressive / flexural strength:	
4 hours:	12 / 3 MPa (1740/433 psi)
Adhesive strength:	2.8 MPa (406 psi)
Fire rating EN13501-1:	Class A1 <sub>n</sub>

## Packaging

VELOSIT CP 200 is available in 20 kg (44 lb.) watertight plastic bags.

## Storage

VELOSIT CP 200 can be stored in unopened original packs for 12 months at 5-35°C (40-95°F) in a dry storage place protected against sunlight.

## Safety

Please observe the actual valid material safety data sheet and follow the described safety measures for handling of the product.

## Recommendations

VELOSIT CP 200 is only available for professional applicators.

Never add water to VELOSIT CP 200 when it has started to set. Stiffened material must be disposed.

Do not use VELOSIT CP 200 on anhydrite or magnesite screeds.

All described product features are determined under controlled laboratory conditions according to the relevant international standards. Values determined under job site conditions may deviate from the stated values.

Please always use the latest version of this data sheet available from our website [www.velosit.de](http://www.velosit.de).

## **Manufacturer**

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