

VELOSIT[®] PC 222

Plug Cement And Starter

DATA SHEET



HYCHEM

velosit

VELOSIT PC 222 is a flash setting cement for concrete and masonry. The product is used to waterproof water leakages and as an accelerator for other VELOSIT mortars. It is especially strong against negative side water pressure.

VELOSIT PC 222 is a shrinkage compensated plug cement with very fast strength development. VELOSIT PC 222 sets within 10 - 15 seconds.

VELOSIT PC 222 is the result of many years in the field testing and research. VELOSIT PC 222 is immediately waterproof and anchors itself into the concrete surface.

TYPICAL APPLICATIONS

- Waterproofing of punctual water leakages for example in concrete pipes, water tanks and basement walls
- Set accelerator for VELOSIT repair mortars

PROPERTIES

- Minimal shrinkage/expansion under dry resp. wet curing conditions
- Fast strength development with 12 MPa compressive strength after 1 hours and final strength of more than 40 MPa after 28 days
- Resists 130 m water pressure acc. to EN 12390-8
- Flash setting with water (sets within 10 - 15 seconds)
- Ready to receive top coat after 10 min.
- Ready for water pressure after a few minutes
- Very good adhesion to concrete and masonry
- No cracking
- No curing required
- Good resistance against aggressive media with a pH range of 3-12 and against soft water with low ion content
- Good weathering resistance
- Good sulfate resistance

TECHNICAL DETAILS

Color	grey
Density	1.2 kg/l
Substrate temperature	5 - 35 °C
Water impermeability acc. EN 12390-8	Positive side: 5 bar Negative side: 5 bar
Compressive / flexural strength	1 hour: 12 / 2 MPa 24 hours: 30 / 5 MPa 7 days: 40 / 6 MPa
Chloride ions	< 0.05 %
Carbonation resistance	passed
Capillary water absorption	0.4 kg/m ² x h ^{0.5}
Adhesive strength	1.2 MPa
Restrained shrinkage	1.2 MPa

APPLICATION GUIDELINES

Surface preparation

VELOSIT PC 222 is designed for mineralic substrates like concrete, masonry or absorptive natural stones.

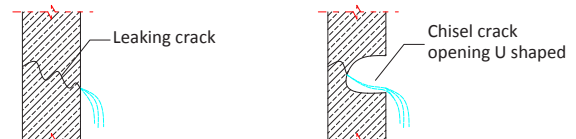
Chisel defective area or water leakage open achieving a U-shaped profile. Remove all dust and debris from areas to be treated. Dampen the surface with water to a saturated surface dry (SSD) condition before application of VELOSIT PC 222.

Processing

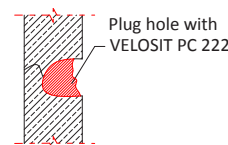
VELOSIT PC 222 is applied as a dry powder into the leakage. Due to the immediate set it is not possible to mix the product with water.

Plugging of water leakages

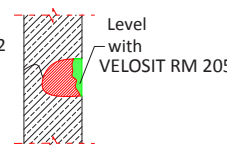
Apply a handful of dry VELOSIT PC 222 (wear protective gloves!) into the prepared leakage. Hold for 1 to 2 minutes until the product has sufficiently hardened. Immediately shave the surface flush with the substrate. After a short waiting time the area waterproofing with VELOSIT WP 101 or CW 111 can be applied.



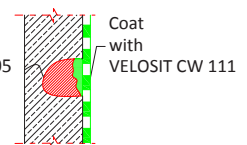
Step 2:



Step 3:



Step 4:



Use as accelerator

VELOSIT PC 222 acts as an accelerator for many cementitious mortars. Required amount must be determined in trial mixes.

Curing

VELOSIT PC 222 does not require curing.

CLEAN UP

VELOSIT PC 222 can be removed in the fresh state with water. Once it has cured acidic cleaners like muriatic acid are required.

PACKAGING

12 kg plastic pails

STORAGE

In unopened original packs for 12 months at 5 - 35 °C 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.

NOTE: Customer responsibility

The technical information and application advice given here is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation.

Field support, where provided, does not constitute supervisory responsibility. Suggestions made by HYCHEM either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not HYCHEM are responsible for carrying out procedures appropriate to a specific application.

If unsure contact Hychem for further technical advice before proceeding.

≡velosit



HYCHEM

Head Office

Unit 1, 30 Bluett Drive, Smeaton Grange NSW 2567

T 02 4646 1660 F 02 4647 3700 E admin@hychem.com.au W www.hychem.com.au

ISSUE NUMBER 100720