



VX Floor Self Leveler C70 is a pre-mixed, high-performance concrete specifically formulated for filling voids, precision machine foundations, and floor leveling with a required minimum thickness of 20mm to 40mm. The application of VX Floor Self Leveler C70 can be applied directly without using a Bonding Agent.

For thicknesses exceeding 40mm, it is recommended to mix aggregate (maximum size of 25mm) up to 50% of the powder weight used. The mixture must be tested before application

### TECHNICAL CHARACTERISTIC

**VX Floor Self Leveler C70** is a pre-mixed powder concrete product with self-leveling capability, formulated from silica sand with a particle size of up to 10mm, Portland cement, and additives to achieve compressive strength that surpasses conventional concrete. It utilizes expansion and rapid hardening technology, allowing applicators to achieve a surface that is quickly ready for use.

The mixed VX Floor Self Leveler has an adjustable viscosity to meet the required application thickness in the field.

### SURFACES PREPARATION

Ensure that the substrate is free from dust, oil, dirt, and any weak or loose layers. The surface must have a rough texture and be saturated with water prior to application. If surfaces irregularities are present, it is recommended to roughen the substrate using Shot Blasting or manual chipping. The use of a bonding agent is optional.

Make sure that there are no open areas that may create a wind tunnel effect, as these conditions can alter the setting time and induce surface shrinkage cracking

### AREA of APPLICATION

- Warehouse Flooring
- Exposed concrete floors
- Road repairs

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.



## MIXING

Mixing process of VX Floor Self Leveler C70 must begin with pouring water into a prepared mixing vessel.

Water Requirement:

- With aggregate: 10.5% of the dry material weight, or 3,675 liters of water per 35 Kg (25 Kg powder + 10 Kg aggregate)
- Without aggregate: 12-16% of the dry material weight, or 3-4 liters of water per 25 Kg powder.

The mixture must be thoroughly homogenized using mechanical mixing. Manual mixing is not recommended as it may affect the final performance.

## MIXING METHOD

- Without aggregate (for application thickness of 20-40mm), mixing must be done using a high-speed mixer with 700-1,000 Rpm. Start the machine and slowly pour the powder until fully incorporated. Mix for 4-5 minutes, then stop for 30 seconds before resuming mixing for another 2 minutes before pouring.
- With aggregate (for application thickness of 40-100mm), mixing must be performed using a diesel-powered mixer with a built-in breaker. Start the machine and gradually add the powder until fully blended. The mixing process should continue for 6-7 minutes or until the mixture is uniformly mixed.

Adding extra water to the mixture is strictly prohibited as it will alter the final performance

## APPLICATION

Apply VX Floor Self Leveler C70 to the prepared area immediately after mixing is complete. If necessary, a vibrator can be used to minimize air pockets or voids in the final result. A trowel can be used to improve the density and surface finish of the final layer.

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Product Identification	High Strength Grout
Weight	25 Kg powder
Consistency	Fine powder and coarse aggregate up to 1 cm
Colour	Grey (powder)
Dry Solid Content	99,8%

## APPLICATION DATA

Mixing ratio (with Water)	12-16% per mix, that is 3-4 L per set adjust viscosity according to use
Thickness per coat	Start from 20mm
Self-Leveling	Yes
Density of mix (gram/L)	2205
Coverage Area	1.25m <sup>2</sup> per 10mm
Min. application temperature	25°C to 30°C
Flowability period	40 minutes
Final Setting time	360 minutes
Set to light foot traffic	4-6 hour EXTENDED (depends on room temperature)
Set to Heavy traffic	24 hours
Curing Period	Air curing

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## FINAL PERFORMANCE

Performance characteristic	Test Method	Performance of product (12% water)
<b>Compressive strength (Mpa)</b>		
after 24 hours	EN 13892-2	40
after 7 days		60
after 28 days		74
<b>Flexural strength (Mpa)</b>		
after 24 hours	EN 13892-2	10
after 7 days		12
after 28 days		13
<b>Adhesion to concrete</b>		
after 7 days	EN 13892-8	1.24
after 28 days		-> 1.5
<b>Abrasion resistance</b>		
Mohs Hardness Scale	28 days	7

## RECOMMENDATION

- Do not add water to a mix which has already to set
- Do not add lime, cement, gypsum to the mix
- Do not apply VX Floor Self Leveler C70 below 20°C
- Make sure to prepare existing floor to be clean of oil, dust, dirt, or any loose material that may move during setting
- Mixing has to be strictly conducted with high speed mixer to avoid lumping uneven mixture

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