



**VX Floor Self Leveler RS3460** is a pre-mixed concrete product specifically formulated for leveling and smoothing damaged, unsuitable, or uneven concrete floor surfaces with an ultra-fast setting time. **VX Floor Self Leveler RS3460** can be applied directly without a Bonding Agent and supports an application thickness ranging from 10mm to 50mm. For thicknesses exceeding 25mm, it is recommended to add aggregate up to 50% of the powder weight used. The recommended aggregate size is 12-15mm, and a trial test on the application area is required before use.

### TECHNICAL CHARACTERISTIC

**VX Floor Self Leveler RS3460** is a pre-mixed, self-leveling concrete product composed of silica sand and polymer-modified Portland cement, designed to provide superior adhesion strength exceeding that of conventional concrete. It uses expansion and rapid hardening technology to facilitate faster application and usability, ensuring the applicator achieves a surface that is quickly ready for use.

The mixed VX Floor Self Leveler RS3460 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 this conditions can alter the setting time and induce surface shrinkage cracking

### AREA of APPLICATION

- Industrial and Warehouse flooring
- Exposed floor

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## MIXING

Mixing process of VX Floor Self Leveler RS3460 must begin with pouring water into a prepared mixing vessel.

Water Requirement:

- 13.5% of the powder weight
- 10.5% of the powder weight if screening stone is added (maximum 10kg of screening stone per 25kg mix)

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 10-25mm), 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 25-50mm), 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 RS3460 to the prepared area immediately after mixing is completed. To achieve a uniform and level finish, a grinder can be used to remove excess application residue. This process can be carried out at least 24 hours after application.

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Product Identification	Flash Setting Concrete patching
Weight	25 Kg powder
Consistency	Coarse Powder up to 4mm
Colour	Grey (powder) and black (coarse aggregate)
Dry Solid Content	99,8%

## APPLICATION DATA

Mixing ratio (with Water)	13,5% per mix
Thickness per coat	Start from 10 mm Up to 50 mm
Flowing	Yes to a certain degree
Density of mix (gram/L)	2280
Coverage Area	1.35m <sup>2</sup> per 10mm
Min. application temprature	25°C to 30°C
Flowability period	17 minutes
Final Setting time	28 minutes
Set to light foot traffic	1 hour EXTENDED (depends on room temperature)
Set to Heavy traffic	3 hours
Curing Period	None

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## FINAL PERFORMANCE

Performance characteristic	Test Method	Performance of product (14% water)
<b>Compressive strength (Mpa)</b>		
after 24 hours	EN 13892-2	34
after 7 days		50
after 28 days		60
<b>Flexural strength (Mpa)</b>		
after 7 days	EN 13892-2	9
after 14 days		10
after 28 days		11
<b>Adhesion to concrete</b>		
after 7 days	EN 13892-8	0.8
after 28 days		1.3
<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 RS 3460 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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