



Zentrival® PL

Polymer based, hydraulically setting, ready-to-use and waterproof tile and board adhesive

Product Properties

- Higher bonding and adhesion strengths
- No pre-wetting and battening necessary
- Economical and labor saving
- Quicker and cleaner work and avoids transport of materials like cement, sand etc
- Non saponifying type therefore no loss of strength
- Waterproof and avoids fungus growth, non shrink
- Suitable for interior, exterior and underwater application
- Suitable for vertical, horizontal or overhead surfaces
- Allows correction of tiles within a time frame
- No curing of tile surfaces necessary

Areas of Application

- Fixing of ceramic and other tiles in bathrooms, kitchens and facades
- Fixing tiles on floor, walls, etc.
- Laying mosaic tiles, natural stones, marble tiles, etc.
- Fixing of gas concrete blocks, insulation boards, polystyrene boards, gypsum boards, etc.
- Leveling and repairing of cementitious surfaces
- As a slurry coat before tiling on absorbent surfaces

Application Notes

General

Zentrival® PL is a saponification resistant, hydraulically setting Tile and Board adhesive. **Zentrival® PL** is based on high quality cements and other polymer raw materials and therefore develops high adhesion strengths. Being saponification resistant, the strength of bed mortars is not lowered over a period of time. The strengths are about 3.5 to 4 times as compared to conventional tiling materials. **Zentrival® PL** is the latest generation tile adhesive that can replace the conventional method of fixing the tiles.

Advantages

Zentrival® PL is suitable for use in interiors as well as exteriors. The tiles can be bonded by spot method or thin bed method. **Zentrival® PL** mortar does not shrink or crack. It is easy to work with and ordinary laborers can carry out the work. There is no need to wet the tiles prior to fixing. The work rhythm is faster and economy is derived from the fact that the output of the tile labor is 2 to 3 times to that by conventional methods. It is suitable for the tile fixing on all absorbent surfaces like cement plaster, gypsum boards, asbestos, panels, concrete etc.

Instruction for use:

The substrates should be structurally sound and free from oils, grease, and remnants of form oils or curing compounds. The surfaces should be free from paints and surface laitance. If the surfaces are too rough, a smoothing plaster coat can be applied. **Nafufill®** or **MC Superplus** admixed mortar can be used for this purpose, to reduce the consumption of **Zentrival® PL**. The surfaces on which the tiles are to be applied should be prewetted.

Add **Zentrival® PL** to water and not reverse. Mix until a paste like consistency of the mortar is formed. Level the paste to stand for about 5 - 10 minutes before application to enable the polymers to react. Mix only small quantities that can be used within 20 to 25 minutes. General consumption of **Zentrival® PL** is 1.7 kg/m²/ mm thickness.

Apply **Zentrival® PL** to the prepared surfaces by a plain trowel in about a thickness of 1-2 mm. Use a notched trowel to roughen the surface and to save the material. Do not cover more than 1.5 square meter area at a time. The tiles can then be placed in position before the skin is formed. The position of tiles can be adjusted within about 25 to 30 minutes depending upon temperatures. If the **Zentrival® PL** paste has hardened, do not add water to make it workable. The joints can be filled next day with **Zentrival® CTG**.

For Marbles, heavy tiles, etc. use **Zentrival® HS**, polymer based, ready to use tile adhesive. The thickness of layer should not exceed 5 mm. In case of adopting the spot bonding method of fixing tiles put at least 8 spots of about 4 cm diameter per m² area. The tools can be cleaned with water.

Further Instructions / Precautions

<p>Tools: Notched Trowel and Normal Trowel</p> 	<p>Spreading Zentrival® PL-Flex Using Notched Trowel</p> 	<p>Buttering Method</p> 	<p>Application of Tile</p> 
---	---	---	---

Technical Data For Zentrival® PL

Characteristic	Unit	Value	Comments
Color	----	Grey/White	
Consistency		Pasty	
W/P Ratio	----	0.24-0.25	W/P Ratio can be adjusted depending Upon Required Consistency
Quantity of Water	Litres	7.2-7.5	Per 30 Kg Bag
Bulk Density of Powder	Kg/L	1.3-1.5	
Mixed Density @0.25W/P	Kg/L	1.7	±0.2
Maximum Grain Size	mm	0.6	
Consumption/Coverage	Kg/m ²	3.5-4.0 5.0-5.5 6.5-7.0	With 6mm Notch Trowel(3 mm Thickness) With 8 mm Notch Trowel(4mm thickness) With 10 mm Notch trowel(5mm thickness)
Yield	Litres	21.5	
Layer Thickness(Minimum)	mm	3	
Maturing Time	Minutes	Apparx 5	@ 25°C Temperature and 50% Humidity
Pot Life @ 25°C	Minutes	≥90	
Application Temperatures	°C	+5 To + 40	
Grouting Time	Hrs	After 24 Hrs	
Light Foot Traffic	Hrs	After 24 Hrs	
Full Cure	days	14	
Properties As Per IS 15477 Type 1 Category with Special Characteristic T for Slip Resistance			
Mixing Done @ 0.25 W/P Ratio			
Tensile Adhesion			
A) Dry Condition	N/mm ²	0.86	Minimum Requirement 1.0 N/mm ² Not Specified
B) Wet Condition	N/mm ²	0.67	
Shear Adhesion			
A) Dry Comdition	N/mm ²	1.12	Minimum Requirement 1.25 N/mm ² Not Specified Not Specified
B) Wet Condition	N/mm ²	0.93	
C) Heat Aging	N/mm ²	1.09	
Open Time	Minutes	15	Requirement Not Specified in Standard
Adjustability	Minutes	20	Requirement Not Specified in Standard
Slip	mm	0.29	Requirement ≤ 0.5mm
Tile Specifications 1.Type=Ceramic Tiles 2.Porosity=>3%			Requirement=Vitrified Tiles Requirement= > 3%
CONCLUSION: Zentrival PL Tile Adhesive Conforms to the Requirements of Type 1 'T' Tile Adhesive as Per IS 15477-2019			

Product Characteristics for Zentrival® PL	
Type of Product	Polymer modified tile adhesive
Form	Powder
Colour	Grey, Off white
Shelf Life	6 months from date of Manufacture
Delivery	30 Kg Sacks
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.

Edition: January 2019

Revision: April 2023