



Zentrival PL-Flex Super

(CONFORMS TO IS 15477 TYPE 3 'T')

One Component, Flexible, Polymer based Ready to use tile adhesive for Bonding of tiles Marbles, granites, stones, insulation boards, etc.

Product Properties

- Higher bonding adhesive strength
- Non saponifying type to ensure no loss of strengths over Passage of time
- Suitable for interiors as well as exterior surfaces
- Makes fixing of tiles on existing tiles possible
- Suitable for absorbent as well as non absorbent surfaces
- Very economical on account of thin bed method
- Better workability to enable quicker work rhythm leading
- Improved worker efficiency
- Permanent bond to avoid recurring maintenance costs
- High flexibility to counteract thermal stresses
- Allows for correction of tiles within setting period
- Suitable for horizontal, vertical or overhead surfaces
- Suitable for multitude of surfaces
- Eliminates pre-wetting of tiles, marbles, stones, etc.
- Eliminates batting and therefore no breakage or wastage
- Neat and clean bonding guaranteed.
- Totally avoids iron staining of marble slabs

Areas of Application

- Fixing of tiles on floors and walls
- Bonding of heavy marble, granite and stone slabs of exterior claddings.
- Fixing of tiles on surfaces like plaster, marine plywood, cement bound boards or various other absorbent and non absorbent surfaces
- Fixing of tiles on existing tiles
- Bonding of polystyrene and other insulation boards by thin bed method
- For fixing of tiles in interiors as well as exteriors
- **Bonding of tiles for overhead surfaces**
- For fixing marble, mosaics, glass mosaics and other ceramics in case of murals etc.

Application Notes

General

Zentrival PL-Flex Super is a ready to use flexible thin bed tile adhesive on polymer basis. It is suitable for interior as well as exterior applications. **Zentrival PL-Flex Super** is resistant to saponification resulting in no loss in bonding strength over time. **Zentrival PL-Flex Super** is extremely suitable for absorbent as well as non-absorbent surfaces.

Zentrival PL-Flex Super is suitable for fixing conventional tiles as well as marble, granite and stone slabs for exterior claddings and also for fixing of polystyrene and other insulation boards. While fixing tiles, thin bed method can be used. This method with **Zentrival PL-Flex Super** replaces the conventional tiling method of using a cement pat mortar of about 15 to 20 mm thickness and the lack of adhesion that is common feature with cement mortar while fixing stone, marble tiles etc.

Zentrival PL-Flex Super mortar has inbuilt flexibility which counteracts the thermal Stresses especially in the external claddings.

On account of its easy workability **Zentrival PL-Flex Super** enables quick spreading of the adhesive thereby increasing the labor efficiency. On the whole an overall economy can be achieved by usage of **Zentrival PL-Flex Super** taking into

consideration the long-term benefits achieved.

The use of **Zentrival PL-Flex Super** eliminates the need of prewetting the tiles and stones etc. It also eliminates the batting of tiles and avoids breakage of costly tiles, stones, marbles etc. **Zentrival PL-Flex Super** is extremely suitable for tile on tile applications. **Zentrival PL-Flex Super** is suitable for tiling on multitude of surfaces like concrete, cement plasters, gypsum plasters, non-absorbent wood, existing tiles etc.

Zentrival PL-Flex Super can therefore be called as universal bonding agent for fixing tiles, which can aid Architects to design and implement various claddings and facades.



Further Instructions / Precautions

Surface Preparation

Since **Zentrival PL-Flex Super** is suitable to fix tiles on a variety of surfaces, surface preparation methods would vary from surface to surface. As a guideline, all surfaces should be structurally sound, dry, and free of oils, grease and remnants of mould

surface laitance.

Zentrival PL-Flex Super is compatible with slightly wet and moist surfaces and absorbent surfaces should be lightly moistened prior to application. External surfaces should be relatively even to enable saving of the material. On uncommon surfaces a preliminary trial a week before fixing date is recommended. Similar trials are recommended for uncommon type of building materials to be bonded to surfaces.

Technical Data For Zentrival PL-Flex Super

Instructions for Use

Add **Zentrival PL-Flex Super** to water and not reverse, mix until a paste like consistency of the mortar is formed. Leave 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 20/25 minutes.

Apply **Zentrival PL Flex Super** 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 sq. m 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 25-30 minutes depending upon temperatures. If the paste material has hardened do not add water to make it workable. The layer thickness should not exceed 5 mm.

Characteristic	Unit	Value*	Comments
Color	----	Grey/White	
Consistency		Pasty	
W/P Ratio	----	0.21-0.22	W/P Ratio can be adjusted depending Upon Required Consistency
Quantity of Water	Litres	6.3-6.6	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	With 6mm Notch Trowel 3mm Thickness
		5.0-5.5	With 8mm Notch Trowel 4mm Thickness
		6.5-7.0	With 10mm Notch Trowel 5mm Thickness
Yield	Litres	21.3	
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 3 Category with Special Characteristic T for Slip Resistance			
Mixing Done @ 0.22W/P Ratio			
Tensile Adhesion			
A) Dry Condition	N/mm ²	1.74	Minimum Requirement 1.5 N/mm ²
B) Wet Condition	N/mm ²	1.34	Minimum Requirement 1.0 N/mm ²
Shear Adhesion			
A) Dry Comdition	N/mm ²	1.57	Minimum Requirement 1.5 N/mm ²
B) Wet Condition	N/mm ²	1.32	Minimum Requirement 1.0 N/mm ²
C) Heat Aging	N/mm ²	1.16	Minimum Requirement 1.0 N/mm ²
Open Time	Minutes	20	Requirement Not Specified in Standard
Adjustability	Minutes	25	Requirement Not Specified in Standard
Slip	mm	0.15	Requirement ≤ 0.5mm
Tile Specifications			
1.Type=Vitrified Tiles			Requirement=Vitrified Tiles
2.Porosity=≤3%			Requirement= ≤ 3%



Product Characteristics for Zentrival PL-Flex Super

Type of Product	Flexible Polymer modified Tile Adhesive
Form	Powder
Colour	Grey, 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.

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Edition: January 2013

Revision 1: April 2023