



Zentrival® HS

Polymer based, waterproof ready to Use tile Adhesive for bonding of heavy tiles, granite, stone, insulation boards, etc.

Product Properties

- Higher bonding and adhesion strength,
- 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 to improved worked efficiency
- Permanent bond which avoids recurring maintenance costs
- High flexibility to counteract thermal stresses
- Avoids fungus growth
- Allows for correction of tiles within setting period
- Avoids mechanical supports in case of heavy stone and marble slabs
- Eliminates batting of tiles and therefore no breakage and wastage
- Neat and clean bonding guaranteed
- Totally avoids iron staining of marble slabs

Areas of Application

- Fixing of tiles floors, walls or overhead areas
- Bonding of heavy marble, granite and stone slabs for exterior cladding
- Fixing of tiles on surfaces like plaster, marine plywood, cement bound and various other absorbent and non-absorbent surfaces
- Fixing of tiles on existing tile surface
- Bonding of polystyrene and other insulation boards by thin bed as well by spot bonding
- For fixing of tiles in interior as well as exterior areas
- For fixing marble mosaics, other ceramics in case of murals etc.

Application Notes

General

Zentrival® HS is a ready to use polymer based tile adhesive. **Zentrival® HS** retains bonding strength over time. **Zentrival® HS** is suitable for absorbent as well as non-absorbent surfaces.

One of the greatest advantages of fixing marble slabs with **Zentrival® HS** is the total avoidance of the iron staining of marble, which is a common occurrence when any cement based adhesive is used. **Zentrival® HS** is suitable for fixing of conventional tiles as well as marble, granite, stone slabs for exterior claddings. While fixing the tiles, thin bed method or spot bonding method can be used. Fixing tiles with **Zentrival® HS** replaces the conventional tiling method of using cement mortar of about 15 to 20 mm thickness. It also solves lack of adhesion that is common with cement mortar while fixing stone, marble tiles etc. **Zentrival® HS** has inbuilt flexibility which counteracts thermal stresses in external claddings.

On account of its easy workability, **Zentrival® HS** enables quick spreading of the adhesive thereby increasing the labour efficiency. By virtue of its polymer base, the bonding strength is very high and therefore it reduces the maintenance cost incurred in costly scaffolding to replace the fallen tiles. On the whole and over all economy can be achieved, taking into consideration the long-term benefits achieved. The use of **Zentrival® HS** eliminates the need of pre-wetting and batting of tiles thereby avoiding the breakages of costly tile, stones, marbles, etc. **Zentrival® HS** is suitable for tile on tile applications. **Zentrival® HS** can be called a universal bonding agent for fixing tiles, which can aid architects to design and

implement various claddings and facades.

Instructions for use

Since **Zentrival® HS** is suitable for fixing tiles on several surfaces, the surface preparation will vary for each surface. As a guideline, all surfaces should be structurally sound, dry, and free from oil, greases, and remnants of mould release agents. **Zentrival® HS** is compatible with slightly wet or moist surfaces. Absorbent surfaces should be lightly moistened prior to application. Surfaces should be relatively even to enable saving the material. To bond uncommon surfaces a preliminary trial is recommended. In case of non-absorbent surfaces the tiling pattern should enable draining of the dispersion water in **Zentrival® HS**.

Zentrival® HS is a ready to use paste. It should be applied to prepared surfaces by a smoothing trowel in 2mm thin layer. The surface should then be combed with a notched trowel to obtain ribbed pattern to save the material. The tiles should be placed in contact with the paste as soon as possible but in every case before the paste forms a film on the surfaces. The film formation time is about 25 to 30 minutes depending upon the ambient temperatures therefore apply only such quantity of **Zentrival® HS** on which the tiles can be fixed within the above time limits. In case of very high temperatures, it is recommended not to apply **Zentrival® HS** over 1m² of area. In case of spot bonding of insulation boards etc. It is recommended to use minimum 8 spots of 4 cm diameter per square meter of area. The tiles should be placed in the paste with a slight twisting motion to ensure complete surface contact, no batting is necessary.



Further Instructions / Precautions

In case of heavy stones, marble slabs, overhead tiling operations or where quick hardening and adhesion is required, Add 10 to 20 parts of fresh OPC or white cement to **Zentrival® HS**. The exact amount of cement to be added can only be determined at site depending upon the weight of heavy slabs and time of desired hardening. This phenomenon is due to the fact that cement absorbs some dispersion water in **Zentrival® HS** leading to quicker hardening.

Zentrival® HS is not suitable for fixing tiles in swimming pools and water tanks. For this purpose, we recommend **Zentrival® PL** or **Zentrival® PL-Flex**, cement based polymer modified tile adhesive. The joints should be filled with polymer modified waterproof grout **Zentrival® FM**. The trowels and other implements should be immediately cleaned with water to avoid paste remnants before hardening.

The consumption depends upon the smoothness of the base surface and is approximately 1 to 2kg/m² for thin bed method. The actual consumption of **Zentrival® HS** is reduced when cement is added to it. In case of spot bonding the consumption is approximately 0.5 kg per sq/m.

The product is water based and therefore it should be stored in closed rooms protected from direct sunlight, as evaporation of water can lead to hardening of the product. The product also has a limited shelf and therefore should be used within the time as mentioned on the individual packing. The containers should be immediately closed after taking out required quantity of **Zentrival® HS**. The lid should be tightly closed to avoid any evaporation of water.

Technical Data For Zentrival® HS

Characteristic	Unit	Value	Comments
Minimum application temperature	°C	+ 20°C	
Pot life	Minutes	25	
Consumption	Kg / m ²	2 - 5	

Product Characteristics for Zentrival® HS

Type of Product	Polymer based, ready to use, tile adhesive
Form	Paste
Colour	Off White
Shelf Life	6 months from date of Manufacture
Delivery	40 kg Containers and 5 kg Cans
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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