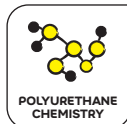




Suitable for large as well as thin tile applications on all surfaces like metal, glass, plywood, drywall, AAC wall panels, PU waterproofed surface, tile-on-tile & tile-on-stone, lime mortar surface and cementitious plasters



weberfix PU Hiflex

Product description

Weberfix PU Hiflex is a two component, ready to mix, polyurethane thinset adhesive for fixing even large as well as thin size of tiles and stones. Weberfix PU Hiflex is suitable for fixing all types of tiles and stones on any substrates including metal and all glass surfaces.

Weberfix PU hiflex is recommended for application on interior as well as exterior wall and floor. Weberfix PU Hiflex's polyurethane formulation provides elastic flexibility and excellent bonding which makes it ideal choice for all cladding applications. Weberfix PU Hiflex is suitable during fixing:

- Large as well as thin size tiles and stones.
- Tiles and stones prone to water absorption and thermal expansion
- For absorbent and non absorbent deformable substrates like wood, metal, glass, rubber, PVC, linoleum, asphalt etc.
- On heated subfloors and in areas subject to thermal shock and freezing
- No spacer required **

From unique architectural designs to iconic cladding applications, Weberfix PU Hiflex can meet all requirements.

Features and benefits

- For internal as well as external wall and floor.
- Suitable for large as well as thin size tile and stone cladding on high rise buildings.
- No Spacer required if adequate constructions joints are provided in tile and stone cladding
- Suitable for substrates including wood, metal, glass, rubber, PVC, linoleum
- Suitable for heated subfloors and areas subjected to thermal shock and freezing
- Suitable for tiles and stones prone to deformation due to water absorption and thermal expansion
- Suitable to install all tiles and stones including glass and metal tiles.

- Can be used for new construction as well as for renovation over existing floors and walls
- Easy workability.
- No hacking of substrate is required to achieve the bonding.
- No shrinkage, prevents debonding and gives longer life to tiles and stones
- Useful for bed thickness of 3-6mm. May go upto 10 mm in limited extent.
- No sag formula: allows for hassle free application on vertical walls, without any slippage
- Moisture free system : Does not damage wooden substrates or tiles, and water sensitive stone like green marble
- Excellent Bond strength and chemical resistance.
- Two Component adhesive : prevents wastage, as only quantity which is required has to be mixed.
- Easy to use.
- Sub surface treatment of stone (to prevent discoloration) is not required.
- Reaction based system, and thus not harshly affected by temperature & humidity.
- Can be used on touch dry surface of concrete.
- Do not need to wait for substrate to get completely dry.
- Chemical Resistant.

Classification

Weberfix PU Hiflex is an improved (2) reaction adhesive (R) and slip resistant (T) classified as R2T as per ISO 13007 and meets requirement of IS 15477:2019 type 5 adhesive

Application substrates

- Cementitious substrates like screeds and mortars, plasters/renders, existing floor, concrete Masonry, cement Terrazzo, blocks, self Levelling Screeds.
- Drywall substrates like gypsum board, calcium silicate board, bison panel board,

Plaster board, Tile backer board, Fibre Cement board,

- Cement Backer board, Engineered Wood, MDF, MR grade Plywood, Chipboard.
- Tile substrates like ceramic tile, vitrified tile, stone, porcelain tiles, glazed tiles, vinyl tiles.
- Waterproofing substrates like mastic asphalt, cementitious, epoxy, polyurethane.
- Other substrates like brick Masonry, gypsum plaster, underfloor heating installation, overlaid timber floors, metal, glass, rubber, linoleum, PVC.

Application areas

Suitable for interior as well as exterior, wall & floor.

Surface preparation

For Cementitious substrate, waterproofing and tiles:

- Substrate should be structurally sound, clean and free of all bond inhibiting compounds, like dirt, oil, grease, paint, sealers, curing compounds, laitance etc. Remove dirt, dust and laitance if any using high pressure water jet or any other suitable method. Surfactants may be required for oil, grease etc.
- Surfaces should be within 15°C to 40°C (at higher temperature material will set faster. To bring down the temperature, saturate with water.)
- Rough or uneven concrete surfaces should be made smooth. Concrete screeds, renders and block work should be sufficiently cured to avoid shrinkage cracks.
- Saturate the surface well (cementitious substrates) and remove excess water before application of the tile adhesive. Surface should be brought to touch dry condition.

For Drywalls and other substrates:

- Only dry cleaning is recommended for such

substrates.. For metallic substrate, loose rust and paint needs to be removed and to be properly treated before application of Weberfix PU Hiflex. Use a wire brush if required, to remove any bond inhibiting compound

- Ensure that the substrate is flat, stable and well adhered.

Note:-

- In case of higher undulation, a neat coat of SBR LitX to be applied on the substrate, followed by application of weberwall premium plaster, to smoothen the surface (Refer technical data sheet of Weber SBR LitX and weberwall premium plaster for further details)
- In case of oil stains, use of surfactants may be necessary, followed by proper cleaning with water, to avoid debonding of tiles.
- Leave expansion joints of atleast 10 mm thickness, for every 12 feet in the substrate and in accordance with industry standards. Do not cover expansion joints with adhesive, and can be filled with appropriate flexible sealant.

Mixing

Please ensure use of proper personal protective equipment (PPE) before handling the product.

- Gradually add 2.5 kg of weberfix PU Hiflex -component A to 2.5 kg of weberfix PU Hiflex-component B and mix it to a lump free, smooth, workable paste using a suitable stirrer/low speed drill mix (100rpm)/or any other appropriate tool.
- Mixing at high speed should be avoided.
- Mix only the quantity of adhesive, which can be consumed in 60 mins.
- After mixing allow the mixture to stand for 2 minutes for it to mature.
- Wash tool immediately with water, after use, and before the adhesive hardens.

Note:-

- Do not attempt to extend the pot life by adding any additional material like resin, solvent etc. These may adversely affect the performance of the product.

Application

- Apply the adhesive onto the substrate covering up to 1 m² at a time (or no more than what can be tiled within 30 minutes). Unfavorable weather conditions (strong sun, dry wind, high temperature etc.) or a highly absorbent substrate can reduce the open time, even to just a few minutes. It is therefore necessary that careful checks be made to ensure that adhesive fins do not become hard. If observed hard, remove the adhesive, and apply fresh adhesive.
- Apply Weberfix PU Hiflex over the surface using the straight edge of the notched trowel and then comb the applied adhesive using the notched side of the trowel to achieve the desired thickness.
- Double buttering is recommended for heavier stones.
- If the adhesive is buttered to the tile, then ensure proper coverage of the tile surface to prevent void formation.
- Leave expansion joints of at least 10 mm thickness, for every 12 feet in the substrate and in accordance with industry standards.
- Do not cover expansion joints with adhesive, and can be filled with appropriate flexible sealant.
- Joint width shall be as per recommendation of architect/site engineer.

NOTE: The size of the notch trowel and the angle of application will determine the bed thickness as per the following formula:

$$\text{Bed Thickness} = \frac{NW \times NH \times \sin \theta}{(NG+NW)}$$

Where:

- NW is the width of the notch.
- NG is the gap in between the notches.
- NH is the height of the notch.
- θ is the angle of application.

Please use small sample for application evaluation in case of pure white or highly porous stones before going for large scale usage.

Installing the tile

- Clean the stone/tile with water/ dry cloth before installation. Wipe with a clean dry cloth, to ensure there is no bond inhibiting layer of water on the tile.
- Bed the tiles firmly into the adhesive with a slight sliding and/or twisting action/shear, to ensure a good and uniform contact.
- It is good practice to lift an occasional tile after fixing, to verify that the required contact is being achieved.
- In wet areas, external areas and all floors, the final adhesive bed should be free from voids.
- If necessary, tiles should be adjusted, within 90 minutes of installation.
- Carefully clean off any excess adhesive from the tiles and joints with a damp sponge or cloth before it sets. Leave for at least 24 hours before grouting.
- More time may be required before grouting when tiling onto impervious or sealed surfaces or higher bed thickness.

Note to specifier and installer

- Do not use on wet screed or plaster.
- Surface must be fully cured.
- No primer is required, for fixing even heavier stones on drywall or plywood.
- To prevent any discoloration of highly porous natural stone, treat with under-tile impregnator webersys stoneprotect.
- To get excellent stain resistance on stone, use hydrophobic and oliophobic impregnator

webersys stoneseal.

- To get invisible joints between spaced tile and stones, fill with specially formulated weber pearl armor specialty grout
- To get high aesthetic appeal, fill joints with weber knight armor specialty grout.
- When highly porous natural stone is treated with webersys stoneseal as an impregnator to prevent capillary movement of slurry to avoid patches on top of stone, needs to be fixed weberfix PU or Weberfix PU Hiflex.

Grouting

If joints are kept between tiles and stones, then joints to be grouted after 24 hours of application of weberfix PU Hiflex. To match joint with the color of tile/stone, use weberepox easy which is available in 12 most popular shades. Use Weber-joint poxy along with weber joint poxyfill for wider range of shades (available in more than 40 colors). Joints can also be grouted with weber-color dewdrop and weber.color fine along with weber groutadd.

Ready to use

Surfaces are ready for use, after 2 days, post completion of grouting, depending upon the type of grout used.

Note - Readiness for use after two days, is based upon grouting done with Weberjoint poxy along with Weber joint poxyfill.

Packaging

5 kg Bucket (Component A - 2.5 kg, Component B - 2.5 kg)

Colour

Part A - Off white thixotropic paste, Part B - Light yellow paste.

Technical parameters

Physical Color	White
Resin	Paste form
Hardener	Paste form
Chemistry	PU blend with epoxy reaction resin adhesive
Substrate	Cementitious, RCC, plywood, tile on tile, drywall, metal, PVC, rubber, linoleum, epoxy waterproof, PU waterproofed surface, Bitumen surface
Tiles	Ceramic, vitrified, glass mosaic, impregnated stone, engineered stone, natural stone, glass tile, mirror & PU coated glass
Application	No spacer required if adequate construction joints are provided as per industry standards Open time and pot life larger format tile & stone fixing advantage in terms of fixing
Pot life	more than 90 mins
Open time	more than 45 mins
Adjustability time	more than 45 mins
Shelf life	24 months
Mixing Ratio	1:1 by weight (Component A + Component B) 1.2:1 by volume (Component A + Component B)
Product classification	R2T

Coverage

Approx - 4.65 kg/sq.m per 3 mm of thickness.

Note : Ensure all surfaces are clean, smooth and plum, levelled, free of defects, and without undulations for maximum coverage.

SUBSTRATE TYPE	SUBSTRATES	TILES																	
		Ceramic tiles	Terracotta	Ceramic mosaic	Quarry tile	Vitrified tiles	Glass Mosaics	Glass Mosaic, Glass Tiles & Mirrors	PU Coated Glass	Metal Tiles	Marble Mosaic	Natural Stone	Artificial Stone	Porcelain Tiles	Wooden flooring	Pavers	Brick	Precast terazzo	Insulating and soundproofing panels
Cementitious	Cement-based screeds and mortars	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	cement-based plasters/renders	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Existing floor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Concrete Masonry	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cement Terrazzo	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Blocks	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Self Levelling Screeds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drywall	Gypsum board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Calcium Silicate board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bison Panel Board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Plaster board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Tile backer board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Fibre Cement board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cement Backer board	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Engineered Wood	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MDF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MR grade Plywood	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Chipboard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Others	Brick Masonry	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Gypsum plaster	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Underfloor Heating installation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Overlaid Timber Floors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	PVC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tiles	Ceramic tile	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Vitrified tile	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Stone	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Vinyl tiles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Waterproofing	Mastic Asphalt	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cementitious	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Epoxy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Polyurethane	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* construction joints shall be built as per industrial standards

Technical standards and performance ISO 13007 & EN 12004

Classification	Property	Requirement	weberfix PU Hiflex
R2 – Improved adhesives (additional characteristics)	Shear adhesion strength after thermal shock	$\geq 2 \text{ N/mm}^2$	$> 3 \text{ N/mm}^2$
T – Slip resistance	Vertical slip resistance	$\leq 0.5 \text{ mm}$	No slip

Shelf Life

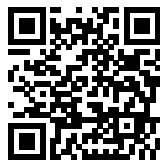
2 years from month and year of manufacturing, for unopened buckets, stored in dry condition.

Storage

Store in a cool and dry place

Disclaimer

The user should determine the usability of the product for its intended use. Our products are manufactured under the Saint-Gobain quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.



FDS / SDS / DoP
Product information



<https://goo.gl/d39avs>

Scan QR code to download android app for product information and technical data for our complete product range, directly from your smartphone.



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