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| Python PR |

GET A GRIP!

PYTHON ADHESIVES

# PYTHON PR A PRIMING AND BONDING AGENT

**Increases the adhesion and prolongs the working time**

**Can be used on both absorbent and non-absorbent surfaces**

**Internal and External use**

**Water based**

**FAST DRYING**

**PRIMES & SEALS SUBSTRATES**

**SBR Based Primer**

## DESCRIPTION

Python PR is a highly advanced styrene butadiene polymer designed to prime, stabilise and seal substrates prior to the application of Python tile adhesives and self levelling compounds.

Python PR increases the adhesion and prolongs the working time of tile adhesives and self levelling compounds. Python PR can be used on both absorbent and non-absorbent surfaces, internally and externally.

For further information please contact the Technical Helpline on 020 8778 9000 or email getagrip@pythonadhesives.com.

## PREPARATION

Surfaces must be sound and free from dust, dirt, grease, oil and any other contaminants. Any laitance or surface treatments must be removed before use. Concrete, sand/cement screeds, anhydrite screeds and power floated concrete must be fully cured and dust removed ideally by vacuum. The temperature of the surface must be above 5°C when the PR is applied. Underfloor heating must be switched off 2 days before application. Timber and over boarded substrates must be rigidly braced and sufficiently constructed to take domestic loading without movement.

## APPLICATION

Shake well before use. PR should be diluted accordingly for the relevant substrate, see page 3. Apply PR evenly to the whole surface to be treated with a paint roller, brush or sponge. Do not over apply as this can cause the primer to skin over, only a thin coat is required ensuring that you have 100% coverage. Wash tools after use with warm water.

The drying time of PR will depend on the porosity of the substrate and the ambient conditions/temperatures. In ideal conditions, PR will take 30 – 45 minutes to dry. Once primed, avoid trafficking the primed area.

## Substrates

- Sand/Cement Screed
- Concrete
- Plywood Overlay (12mm min)
- Chipboard Overlay (18mm min)
- Electric Underfloor Heating
- Tile Backer Boards
- Tile on Tile
- Flooring Grade Asphalt & Bitumen
- Anhydrite Screeds
- Plaster
- Plasterboard
- Fibre Cement Sheet
- Cement/Sand Render
- Concrete Brick/Block
- T & G Floorboards
- Floating Floors
- Existing Vinyl Tiles
- Steel/Metal Surfaces
- Fibreglass
- Green Screed

Suitable | Not suitable

# SUBSTRATE PREPARATION GUIDE

Concrete: New concrete must be allowed a minimum of 6 weeks drying time. As an approximate guide for drying times, allow 1 day per mm up to an overall depth of 50mm and 2 days per mm for anything above 50mm. When using Python GT adhesive, new concrete can be primed and tiled after 7 days. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime the surface with PR diluted 3 parts water to 1 part PR and allow to dry. Very porous substrates will require more than one coat.

Sand/Cement Screed: New sand/cement screed must be left for a minimum of 4 weeks to dry sufficiently or 7 days when using Python GT adhesive. Remove any laitance from the surface mechanically and ensure that mould oil, curing agents and any other contaminants are removed. Remove all dust and dirt ideally by vacuum. Prime the surface with PR diluted 3 parts water to 1 part PR and allow to dry. Very porous substrates will require more than one coat.

Flooring Grade Asphalt/Bitumen: Ensure that the flooring grade asphalt/bitumen is in good condition and that there are no signs of debonding and/or hollowness. Make sure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of PR Slurry Mix. The Slurry Mix consists of 1 part water to 1 part PR mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing tiling.

Existing Ceramic, Porcelain & Natural Stone Tiles: Ensure the surface is dry and free of any contaminants, loose dust or dirt. Existing tiles that have been previously treated with sealer must be sufficiently cleaned in order to remove any surface treatments. Prime the surface with one coat of PR Slurry Mix. The Slurry Mix consists of 1 part water to 1 part PR mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing tiling.

Gypsum Plaster: New plaster must be allowed to dry for a minimum of 4 weeks. Ensure the surface is dry and free of any contaminants, loose dust or dirt. If the plaster has a polished/shiny surface, brush with a stiff bristle brush to abrade/roughen the surface prior to application. Prime the surface with 2 coats of PR, both coats diluted 3 parts water to 1 part PR. Allow the first coat to become touch dry before applying the second coat. The combined weight of the tile, tile adhesive and grout should not exceed 20kg /$m^2$.

Gypsum Plasterboard: Ensure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of PR diluted 3 parts water to 1 part PR. The combined weight of the tile, tile adhesive and grout should not exceed 32kg /$m^2$.

Plywood Overlay: Prior to tiling, ensure that new or existing boards are dry, i.e. conditioned to the environment in which they will be used. Plywood must be 12mm (minimum), exterior grade, screwed (not nailed) to substrate at 6 inch/150mm centres. Ensure there is sufficient ventilation beneath substrate and that the plywood has been fitted competently and will take the weight of the tiles, tile adhesive and grout. Make sure the surface is dry and free of any contaminants, loose dust or dirt. The top surface of the plywood does not require priming prior to tiling. Prime the reverse side and edges of the plywood with neat PR.

Chipboard Overlay: Prior to tiling, ensure that new or existing boards are dry i.e. conditioned to the environment in which they will be used. Chipboard must be a minimum of 18mm and must be screwed (not nailed) to the substrate at 6 inch/150mm centres. Ensure there is enough ventilation beneath the substrate and that the chipboard has been fitted competently and will take the weight of tiles, tile adhesive and grout. Make sure the surface is dry and free of any contaminants, loose dust or dirt. The top surface of the chipboard does not require priming prior to tiling. Prime the reverse side and edges of the chipboard with neat PR.

Underfloor Heating Systems: When tiling onto existing underfloor heating you must switch the heating off 48 hours prior to tiling to allow the substrate to cool sufficiently. When tiling has been completed allow 1 week for full cure of tile adhesive and grout before switching the heating on. When doing so, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

When tiling on to a new electric element underfloor heating system, Python Adhesives strongly recommend embedding the electric underfloor heating mat/element into a self levelling compound such as Python LR or FL in order to protect the heating element and to leave a perfect surface on which to apply tiles. Again, allow one week for full cure before switching the heating on, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

Underfloor Heated Screeds should be commissioned prior to tiling. Turn on the heating system at a low temperature and heat the screed gradually by no more than 5°C per day until a maximum temperature of 25°C is achieved. Maintain this temperature for 3 days and then switch the heating off 48 hours prior to tiling to allow the substrate to cool sufficiently. Alternatively in cold conditions, reduce the temperature of the screed to below 15°C prior to tiling. When tiling has been completed allow 1 week for full cure of tile adhesive and grout before switching the heating on. When doing so, start with a low temperature and gradually increase the temperature on a daily basis by no more than 2°C per day.

Tongue & Groove Boarding and Floorboards: Prior to tiling, ensure that new or existing boards are dry i.e. conditioned to the environment in which they will be used. Existing tongue and groove boards should be screwed to supporting joists at 300mm centres including any cross-noggings if necessary in order to provide a rigid, flat and adequately braced surface. Ensure there is sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the adhesive and tiles being applied. Make sure surface is dry and free of any contaminants, loose dust and dirt. New, clean floorboards do not require priming. Older floorboards that have been sanded or that are highly porous should be primed with one neat coat of PR. Please Note: Certain manufacturers of chipboard floorboard do not recommend their products for being tiled to directly due to the design of their particular board. If in doubt, please consult with the supplier of the board or alternatively contact our Technical Helpline on 01772 456831 for further advice.

Concrete Blocks: Ensure surface is dry and free of contaminants, loose dust and dirt. Prime the surface with one coat of PR diluted 3 parts water to 1 part PR and allow to dry.

Anhydrite/Gypsum Screed: Anhydrite/Gypsum screeds must be confirmed dry via consistent moisture readings across the whole floor. The residual moisture content of the screed must be less than 0.5%. Alternatively the relative humidity must be 75% or below. As an approximate guide for drying times, allow 1 day per mm up to an overall depth of 40mm and 2 days per mm for anything above 40mm. The drying of anhydrite/gypsum screeds can be assisted by commissioning the underfloor heating system, for further information, please contact

our Technical Helpline. All anhydrite/gypsum screeds must be mechanically sanded/abraded in order to remove the laitance from the surface of the screed. Python Adhesives recommended tile adhesive for use on anhydrite/gypsum screeds is Python AF. When using these products, prime the surface with one coat of PR diluted 3 parts water to 1 part PR and allow to dry. If using another Python product on anhydrite/gypsum screeds, please contact the Technical Helpline on 020 8778 9000 for priming instructions.

Tile Backer Board: Ensure the surface is dry and free of any contaminants, loose dust or dirt. Prime the surface with one coat of PR diluted 3 parts water to 1 part PR and allow to dry.

Existing Vinyl Tiles/Sheet Vinyl: Make sure the existing vinyl tiles/sheet vinyl is firm, stable and well adhered to the substrate to which the vinyl was originally applied to. Ensure the surface is dry and free of any contaminants, loose dust and dirt. Prime the surface with one coat of PR Slurry Mix. The Slurry Mix consists of 1 part water to 1 part PR mixed with approximately 30% by weight of cement based tile adhesive or levelling compound to form a brush on slurry. Allow the Slurry Mix to dry before commencing tiling.

Power Floated Concrete: Ensure the surface has been allowed 7 days to cure. Power floated concrete can leave a loose top layer and/or laitance once it has cured. Remove the loose top layer and any laitance from the surface mechanically or by acid etching and remove all dust and particles ideally by vacuum. Once all laitance has been removed, prime the surface with one coat of PR diluted 3 parts water to 1 part PR.

# HEALTH AND SAFETY

The components of Python PR are not classified as hazardous. However, it is recommended that elementary health precautions be followed, including: wear protective gloves and glasses, ventilate working areas, if there is accidental contact with skin or eyes wash thoroughly with water. Do not allow the paste to dry on the skin. Keep out of reach of children.

For further information refer to the Material Safety Data Sheet.

The information contained on this spec sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

| Technical Data | |
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| **Pack Sizes** | 1 litre & 5 litre bottles |
| **Coverage** | 1 litre applied neat = 10m$^2$<br>1 litre diluted with 3 parts water = 40m$^2$<br>1 litre applied as a slurry coat = 18m$^2$ |
| **Application Temperature** | Between 5°C and 35°C |
| **Drying Time Before Tiling** | 30 – 45 minutes in ideal conditions<br>The drying/curing time will depend on the porosity of the substrate and ambient conditions/temperatures |
| **Drying Time Between Coats** | Allow the first coat to become touch dry |
| **Storage** | Store unopened, clear of the ground in cool, dry conditions |
| **Shelf Life** | Stored correctly this product has a shelf life of 12 months |
| **Colour** | Light Green |
| **Note** | All work must be carried out in accordance with British Standard Code of Practice for floor and wall tiling BS5385. |