

C2 TE S1 CONFORMS TO
EN12004 CLASSIFICATION

STRONG HOLD FLEXIBLE STANDARD SET

GET A GRIP!

PYTHON

ADHESIVES



A POLYMER MODIFIED, STRONG HOLD, FLEXIBLE STANDARD SETTING CEMENT-BASED WALL AND FLOOR TILE ADHESIVE WITH INCREASED ADHESION AND NON-SLIP PROPERTIES.

- ▶ For Walls and Floors
- ▶ Indoor and Outdoor Applications
- ▶ Suitable for use with Underfloor Heating
- ▶ Extended Open Time
- ▶ Extended Pot Life
- ▶ Suitable for Ceramic & Porcelain Tiles
- ▶ Suitable for Natural Stone Tiles*
- ▶ Can be used for Swimming Pools & Wet Rooms

* Very porous and sensitive natural stone tiles must be tested prior to use.

PYTHON ST MAX TECHNICAL SPECIFICATION

EN 12004 C2 TE S1

Grout Walls After: 12 hours
Grout Floors After: 24 hours

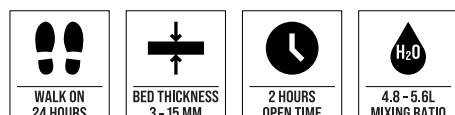
Walk On After: 24 hours
Full Service: 14 days

STORAGE:

The product must be stored unopened and sealed, in its original packaging in a cool, dry place.

SHELF LIFE:

Approximately 12 months from the date printed on the side of the packaging.



SUITABLE SUBSTRATES

- ▶ Tile Backer Boards
- ▶ Plywood Overlay
- ▶ Timber Framework
- ▶ Concrete, Sand and Cement Screeds
- ▶ Gypsum and Anhydrite Substrates*

*Must be primed using Python PR.

M40 SPECIFICATION

Floor and wall coverings must be applied with a flexible, fast setting, cement-based adhesive, classified C2 TE S1 in accordance with EN 12004, such as Python ST Max by Python.

PRODUCT CODES

STOCK CODE	COLOUR	SIZE
6140	WHITE	20KG
6141	GREY	20KG

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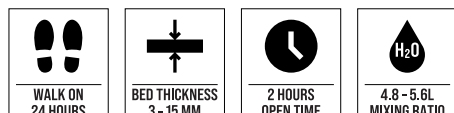
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SUBSTRATE PREPARATION

Before starting, all substrates must be clean, dry and strong enough to support the weight of the tiles, tile adhesive and grout. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.

All subfloors should be protected from moisture from the subground by use of a base damp proof membrane (DPM). Check older properties, which may not have a base DPM and consult Python Adhesives for advice.

Assess moisture levels in accordance with BS 8203, to achieve a hygrometer reading of 75%RH or less. Where this is not attained a surface DPM should be used – the selection of which will be subject to the subfloor.

Substrates require vacuuming and priming as a minimum.

For plasterboard and plaster finishes that have been painted and are showing a weak or flaky surface finish then mechanical sanders or hand sanding blocks are generally used to remove the film. However, for the likes of floor screed surface contamination, adhesive residues and weak surface laitance or even smooth dense floors such as power floated concrete, these will require a more heavy-duty scarifying using specialist flooring equipment to remove the surface of the substrate to ensure the substrate is sound, stable and has a rough open texture.

To encourage best adhesion to the substrate it is advisable that prior to applying adhesive that substrates are primed (please see priming section below).

Remember – sanding or mechanical abrasion of any surface will leave powder deposits which require thorough removal by suitable vacuum equipment to provide a clean dust free surface. Failing to remove fine powder deposits and weak surfaces is a common reason for de-bonding of tile adhesive and primer from the substrate. Using a wet sponge to clean down a wall or floor of dust deposits only serves to spread it around, it is therefore advisable to vacuum thoroughly prior to use of wet sponge.

Tile on tile: It is always preferable to remove existing tiles however fixing new to old is an accepted method as long as the existing tiles are sound, stable, dry, securely bonded and fixed to a background that is capable of taking the additional weight. Ceramic, porcelain and quarry tiles should be lightly abraded to form a mechanical key degreased and ensured thoroughly clean. For existing vinyl floor tiles only hard and brittle vinyl tiles should be considered to be over-tiled. Be aware that some old tiles of this type contained asbestos so should not be abraded. Do not over-tile onto softer vinyl, quartz or composite tiles.

Calcium Sulphate Floor Screeds: It is essential that the floor is fully dry, if in doubt always check the moisture level of the floor is below 75%RH using a hair hygrometer before continuing. This type of floor can also suffer from surface

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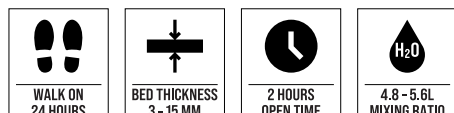
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laitance issues creating a weak surface layer and therefore they are highly likely to require specialist mechanical abrasion as indicated above.

Timber/Wooden Floors: All chipboard and T&G flooring should be over-boarded using exterior or class 3 type plywood boards of minimum thickness 15mm or suitable cement backer boards. All over-boarding should be dry and conditioned to the environment in which they are to be used. Plywood over-boards should have backs and edges sealed to prevent ingress of moisture and atmospheric humidity, as should the face to be tiled.

A neat coat of Python PR Primer should be used to carry out the sealing process prior to installing the boards. The plywood boards should then be positioned, close butted and firmly screwed (not nailed) through the underlying flooring to joists ensuring a max distance between fixings of 300mm centres or less. All timber surfaces should be covered with a decoupling layer prior to tiling.

If using cement backer board to over-board the timber/wood floor, then it should be of flooring grade and of suitable strength for the application to prevent deflection. It should be 9mm minimum thickness. Tile backer board should be bonded using a minimum classification of S1 type tile adhesive and the original wooden floor should be thoroughly cleaned and free of any surface coating or wood treatment. It should also be primed using a neat coat of Python PR Primer.

Underfloor Heating (UFH): If UFH is being installed it must be fully commissioned before starting the tiling process to ensure it is in full working order. This includes both electric mat and water pipe systems. Once the UFH has been commissioned it can be set to a low level to provide a max floor temperature of 15°C whilst the tiling and grouting processes are undertaken. It is critical that this temperature is not exceeded as this can force-dry the adhesive and grout with the potential of causing cracks in the installation or tiles to de-bond. Maintain this temperature for a minimum period of 7 days while the installation cures and hardens.

After this time the UFH can be brought up to the required room temperature slowly at a rate of 5°C per day.

Render: When tiling to new render, it must be a minimum of 4 weeks old and thoroughly strong, dry, dust and efflorescence free and stable.

PRIMING

Subfloors should always be primed. Python PR has been specifically developed to be used as a primer for use with cementitious tile adhesives to provide improved sealing and bonding properties for a variety of substrates.

Porous Substrates: (Includes: plaster, skimmed plasterboard, plasterboard, sand/cement, calcium sulphate screeds, cement backer boards, render and other open textured substrates); Prime with 2 coats of Python PR. The first

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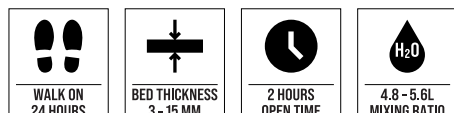
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coat should be diluted 1 part primer to 3 parts clean water (by volume) and allowed to dry for a minimum period of 1 hour. When dry, apply a second coat diluted 1:1 (by volume) and leave for 1 hour to dry before continuing the tiling process.

Non-porous Substrates: (Includes: cured epoxy DPMs, tile on tile applications, foil faced insulation boards, plywood floor overboarding) We recommend Python PR in a single, neat application.

NB: All ratios are water:primer. Please see Python PR technical datasheet for coverage and consumption.

PRODUCT PREPARATION

Python ST Max should be added slowly to clean cold water in a suitable clean mixing tub and mixed thoroughly using a drill/mixer and paddle to give a slump free, easily worked mortar consistency.

As a guide for powder to water ratio, 20kg of Python ST Max requires approximately 4.8 - 5.6 litres of water.

Once mixed the adhesive is immediately ready for use and has a pot life of approximately 2 hours at 20 °C. Mix only sufficient material to be used within the pot life of the product.

Do not remix or rewet/dilute product which has aged and is starting to thicken or set.

INSTRUCTIONS FOR USE

Python ST Max must be applied as a smooth and continuous uniform layer, using a notched trowel, suitable to tiles sizes to be fixed.

Apply the adhesive to the required thickness (limits 3- 15mm) in areas up to 1m² at a time.

Ensuring the adhesive is still moist, bed tiles into adhesive, ensuring full coverage of adhesive between tile and substrate.

For floors and external applications we advise to use the solid bed method. This involves applying a uniform bed of adhesive to the floor and "buttering" the back of the tile with the same adhesive.

When the tiles are bedded with a twisting action, pressing firmly down it ensures 100% contact is made with both the floor and the tile. When fitting tiles leave spaces between each of the tiles to allow for grouting, approximately on walls 1 - 3mm and on floors 2 - 12mm, in accordance with British Standards.

Protect the surface from floor traffic other trades and frost until the adhesive is fully set.

Clean surplus adhesive from the tiles and joints as soon as possible.

Clean tools after use with water.

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GROUTING

Allow walls to set for at least 12 hours before grouting. Allow floors to set for at least 24 hours before grouting.

Floors can handle light foot traffic after 24 hours and full service after 14 days.

Setting times may extend on impervious and non-porous substrates and vary with temperature and conditions.

COVERAGE

3 – 7kg/m². Consumption depends on the substrate and application technique.

Typical Applications for Walls – 7m² per bag and Floors – 3m² per bag.

The given values are approximate.

STORAGE & SHELF LIFE

Python ST Max must be stored in unopened bags, clear of the ground in dry conditions. Avoid frost. Ideal storage temperatures are between 5°C and 25°C.

Use within 12 months from the manufacture date printed on the side of the packaging.

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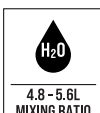
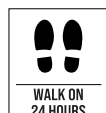
TECHNICAL NOTES

Python ST Max contains a reducing agent which reduces soluble chromium VI. The reducing agent is active when stored in a dry place for 12 months after the stated packing date.

When stored in moist conditions, e.g. on construction sites, the chromate neutralisation will wear off. Packaging that has been opened should be closed tightly after use, and the product should be used as soon as possible.

The information contained 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 possibility of variations of working conditions and of workmanship outside our control.

IF YOU ARE UNSURE WITH ANY OF OUR INSTRUCTIONS, PLEASE CONSULT OUR TECHNICAL DEPARTMENT ON 020 8778 9000.



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HEALTH AND SAFETY INFORMATION



SIGNAL WORD: WARNING
CONTAINS PORTLAND CEMENT & CALCIUM HYDROXIDE

HAZARD STATEMENTS

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H335: May cause respiratory irritation

PRECAUTIONARY STATEMENTS

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P302+P352: If on skin: wash with plenty of water.
P304+P340: If inhaled: remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

GENERAL STATEMENTS

If medical advice is needed, have product container or label at hand.
Non-flammable product.
Keep away from children.

Follow instructions in the material safety data-sheet for safe handling and use.

FOR FULL UP TO DATE TECHNICAL AND SAFETY DATASHEETS VISIT: [TRIMLINEGROUP.COM/PYTHON](https://trimlinegroup.com/python).

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TECHNICAL INFORMATION

CE 1487	
17 PYTHON, TEARDROP CENTRE, LONDON ROAD, SWANLEY, BR8 8TS, LONDON. 23	
DECLARATION OF PERFORMANCE NO: ELC/DWU-12/2022	
HARMONIZED TECHNICAL SPECIFICATION: EN 12004:2007+A1: 2012, IDT	
PYTHON ST MAX A highly flexible and frost-resistant adhesive mortar, ideal for bonding tiles, terracotta, stoneware, and natural stone both inside and outside buildings. Suitable for use in underfloor heating systems. For all internal and external tiling applications.	
ESSENTIAL CHARACTERISTICS	DECLARED VALUE
Reaction to Fire	CLASS E
Release of Dangerous Substances	NPD
Bond Strength Expressed as Initial Tensile Adhesion Strength	$\geq 1.0 \text{ N/MM}^2$
Durability of Bond Strength against Climate / Heat Ageing Action Expressed as Tensile Adhesion Strength after Heat Ageing	$\geq 1.0 \text{ N/MM}^2$
Durability of Bond Strength against Water/ Humidity Action Expressed as Tensile Adhesion Strength after Water Immersion	$\geq 1.0 \text{ N/MM}^2$
Durability of Bond Strength against Freeze-thaw Cycles Expressed as Tensile Adhesion Strength after Freeze-thaw Cycles	$\geq 1.0 \text{ N/MM}^2$

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