



Pot Life: 50 mins

R2T

EN 12004

An epoxy-polyurethane flexible, two part adhesive for the rapid, reliable installation of all types of ceramic, porcelain and natural stone tiles to all substrates.

- ▼ For the installation of marble, agglomerate, composite marble, granite & natural stone
- ▼ Suitable for interior and exterior use on for floor and walls
- ▼ Beds up to 15mm thick
- ▼ Ideal for thin tiles
- ▼ Suitable for high temperatures (-30°C to +90°C)
- ▼ Compatible with underfloor heating
- ▼ Bonds to gypsum and anhydrite substrates without requiring primer
- ▼ Tiling on problematic floors, e.g. existing ceramic, wood, and steel substrates* (*sanded first)
- ▼ Conforms to: EN 12004 R2T

STORAGE:

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

SHELF LIFE:

Approximately 24 months.
Expiry date: See Best Before date printed on the top of the packaging.

TECHNICAL FEATURES:

Validus Maximus is a two part white adhesive consisting of epoxy-polyurethane resins, graded particle size aggregates and special additives.

It has been formulated and developed for rapid, reliable installation of almost all marble, granite, natural stone, marble agglomerate and tiles in composite marble with polyester resins or cements, including on non-absorbent substrates or substrates subject to slight dimensional variation.

A special waterless composition makes this product especially suitable where there is a need to avoid the risk of irreparable staining, not least on porous varieties of marble, and prevent the possible deformation of reconstituted marble tiles.

M40 SPECIFICATION CLAUSE FOR CONTRACTS:

Floors and walls must be laid with a bicomponent epoxy polyurethane adhesive, highly resistant and conforming to norm EN12004 class R2T such as Maximus by Validus.





SUITABLE EXTERIOR SUBSTRATES OR USES:

- ▼ Concrete
- ▼ Cement-based screeds including heated screeds
- ▼ Cement-based plaster
- ▼ Flexible waterproofing membranes made up of cement and polymers
- ▼ Cement based blocks

SUITABLE INTERIOR SUBSTRATES OR USES:

- ▼ Old ceramic tiles
- ▼ Elastomeric waterproofing membranes
- ▼ Standard plasterboard
- ▼ Wooden boards
- ▼ Iron

CONSUMPTION:

The consumption of Validus Maximus changes depending on the laying surface, system used and the trowel size. As a guide:

Notched Trowel Size	Approx Consumption kg/m ²
6mm	3.5/4.5
8mm	5
10mm	6

MAXIMUM TILE SIZES:

Max. length of longest tile side:

- ▼ Internal Floor: 3600mm
- ▼ External Floor: 1200mm
- ▼ Internal Wall: 3600mm
- ▼ External Wall: 1200mm





PRODUCT PREPARATION:

Mix both Validus Maximus parts A and B in their entirety in this original packing, with a mixer at a low speed (300rev/min) until you achieve a smooth and lump free homogeneous consistency.

Do not mix different quantities as this will cause non setting. Product that has begun to set must be discarded.

Use within the products pot life (As a guide: 45-50 minutes at 23°C and 50% RH).

INSTRUCTIONS FOR USE:

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. Metallic surfaces must also be sanded degreased and rust free.

Validus Maximus must be applied as a smooth and continuous uniform layer, using a notched trowel, suitable to tiles sizes to be fixed. Validus Maximus can be applied to a maximum bed thickness of 15mm.

Ensuring the adhesive is still moist, bed tiles into adhesive, ensuring full coverage of adhesive between tile and substrate. Protect the surface from frost until the adhesive is fully set.

Clean surplus adhesive from the tiles and joints as soon as possible as set adhesive will prove very difficult to remove later. Clean tools after use.

GROUTING:

In ideal conditions floors can be walked on with caution after about 24 hours for grouting. The area can be returned to full service within 3 days. This time can vary depending on temperature and site conditions. Impervious surfaces may extend the set time.

The recommended grout for use with Validus Velox is Validus Aspecto or Resino.





TOOL CLEANING:

Tiling and tools should be cleaned with solvent or alcohol solution while the adhesive is still fresh. Hardened product can be cleaned by mechanical abrasion.

STORAGE:

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

SHELF LIFE:

Approximately 24 months. Expiry date: See Best Before date printed on the top of the packaging.

PACKAGING:

Validus Maximus is packed and sold in 5kg buckets.

PLEASE NOTE:

Validus Maximus complies with the requirements of Reg. (CE) N. 1907/2006 (REACH) - All. XVII, 47.

Use of the product beyond the declared shelf life may increase the risk of an allergic reaction.

If you are unsure with any of our instructions, please consult our **Technical Department on 020 8778 9000.**

The information contained in this technical data 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 possibility of variations of working conditions and of workmanship outside our control.





product technical specification

Classification according to EN12004	R2T
Consistency	Part A: Epoxy-polyurethane paste Part B: Thick Liquid
Colour	Part A: White Part B: Straw Yellow
Maximum Grain Size	0.2mm
Storage	24 months in the original pack if properly sealed
Toxicity	Part A: Harmful in contact with skin and irritating in contact with eyes and skin. May cause sensitization Part B: Caustic and harmful in contact with skin, ingestion and inhalation. May cause sensitization
Flammability	No
Mix Ratio	Component A / Component B 94:6
Mixture Consistency	Creamy
Apparent Mass Volume	1.6 kg/dm ³
Application Temperature	From + 5°C to + 35°C
Pot Life	50 minutes
Open Time	About 120 minutes*
Vertical Sliding to EN 1308	<0.5 mm
Maximum Thickness	15mm
Foot Traffic After	12 hours*
Grouting	12 hours*
Full Service	3 days*
Final Hardening	3 days*

*at 23°C and 50% relative humidity



final performance

Shear Adhesion Strength	>2.0 N/mm ²
Shear Adhesion Strength after Water Immersion	>2.0 N/mm ²
Shear Adhesion Strength after Thermal Shock	>2.0 N/mm ²
Deformability according EN 12004	>5 mm
Temperature Resistance:	From -30°C up to +90°C



product health and safety information

CLP REGULATION (EC) NO 1272/2008:

WARNING / DANGER



PART A

HAZARD STATEMENTS:

H319: Causes serious eye irritation

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H412: Harmful to aquatic life with long lasting effects

P264: Wash thoroughly after handling

P273: Avoid release to the environment

P280: Wear protective gloves/eye protection/face protection

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

P362+P364: Take off contaminated clothing and wash it before reuse

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Supplementary Information:

EUH205: Contains epoxy constituents. May produce an allergic reaction. Contains Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled, Phenol, methylstyrenated

UFI: GU50-C0D5-W00J-NG1F

PART B

H318 - Causes serious eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

P261: Avoid breathing vapours.

P264: Wash thoroughly after handling.

P280: Wear protective gloves/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison centre/doctor.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Reaction product of Fatty acids, C18 alkyl with amines, polyethylenepoly-tetraethylenepentamine fraction. Acute Toxicity Estimate (ATE mix): 92,2 % (oral) of the mixture consists of ingredient(s) of unknown toxicity.

UFI: 8X50-V02K-7001-9TMH

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

Technical Data Sheet Version Number: VA.MS.T01

The information contained in this technical data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.