

### Technical Data Sheet (TDS)

#### Product Description

Pangaea is a cement based polymer enhanced compound that is installed on top of existing structural substrates. It is mixed on site and hand troweled at an average thickness of 15mm. After curing, Pangaea is then machine ground and mechanically polished which can if desired achieve matte, satin or gloss finishes. Pangaea is an interior product.

#### Technical Characteristics

- Consistency - Aggregate exposure is consistent throughout the entire floor.
- Durable - Mechanically polished and sealed to provide high scratch and stain resistance that requires minimal ongoings and maintenance.
- Curing Fast - Curing takes only 2-3 hours before foot traffic is allowed. 8-24 hours before grinding and polishing depending on ambient temperature.
- Strength - >30 MPa compressive strength after 28 days. (40mm cubes cured at 25 degrees C 65% RH).
- Flexural strength at 28 days >7MPa (rectangular prisms cured at 25 degrees C 65% RH).
- C & CA accelerated what test at 28 days 1: Highest rating.
- BRE impact resistance at 28 days (BS 8204: part 1: 1987 Category A: Highest rating).
- Maximum thickness 15mm - pre grind
- Thermal Mass - Hardnesses exposed temperature and slowly releases heat.
- Delivery - Easy and simple. Mixed on site, no trucks or pumps.

#### Compliance

Pangaea complies with the requirements for a class O surface, as defined in paragraph A8 (b) of Approved Document B 'Fire' to the Building Regulations 1985.

BS 476:Part 6: 1989 "Method of Test for Fire Propagation for Products" - Fire Propagation Index, 1=20.

BS 476: Part 6: 1987 "Surface Spread of Flame Test for Materials" - Class 1 Surface Spread of Flame.

#### Health Benefits

Pangaea is a non allergenic and will not harbour dust mites. Pangaea cannot be damaged by moulds, dust and humidity provided the correct maintenance is adhered to.

#### Sustainability

Pangaea provides several environmental advantages. Pangaea is poured in situ, which eliminates waste and off cuts. Approximately 50% of Pangaea is natural stone. Being cement based, Pangaea's thermal mass is very high. This can contribute largely on reducing energy produced in the right zoning climate. As Pangaea is seamless without grout lines, it is simple to clean, sweep, mop and doesn't require any harmful chemicals. A microfibre mop with neutral cleaners and/or a steam mop is sufficient for upkeep and durability. Please see Pangaea Care & Maintenance for more information.

#### Warranty

Pangaea Australia Pty Ltd warrants this product to be good quality for up to 10 years. If in any situation the material is proven to be defective or faulty, Pangaea Australia Pty Ltd will replace or refund the material price within 10 years from the date of purchase. Please see our 10 year material warranty documentation for more information.

#### Application

Installation must be carried out by trained, licensed installers. The substrate must be structural, stable, clean and free from oil, dust and other agents that interfere with bonding to the substrate. For concrete substrates, these must be prepared by mechanical methods and coated with a Pangaea acrylic primer. For timber or stone/ceramic substrates, these must be structural and free of any movement. Pangaea recommends these surfaces be reinforced with cement sheet or hardboard and/or crack isolation mat prior to Pangaea installation.

The surface must be dry and installed only in areas above 10 degrees Celsius, and prevented from freezing conditions.

#### Cold/ Warm Installations

It is recommended Pangaea is installed between 10-25 degrees Celsius. Below or higher than these temperatures will effect curing times and strength ratios. It may be required to heat or cool the room temperature prior and during installation. The use of chilled or heated water during mixing is not recommended.

#### Mixing

The Pangaea water ratio is nominated by the trained/licensed applicator.

#### Coverage

- 15kg Pangaea Powder
- 15kg Nominated aggregate(s)
- Roughly 0.8m<sup>2</sup> - 0.9m<sup>2</sup> at 12-15mm average and 10-12mm completed finish.

#### Lifespan & Storage

Pangaea powder has a 6 month lifespan provided it is stored correctly. Powder is required to be stored on pallets in dry conditions, out of direct sunlight. Do not store Pangaea in high humidity conditions.

#### Warnings

Do not inhale dust. Avoid contact with eyes and skin. The material must be used in well ventilated areas with correct PPE including P2 masks, gloves, glasses and protective clothing. Excessive exposure may irritate eyes, nose, throat, and upper respiratory system. In the case of skin irritation, breathing difficulties, or if material comes in contact with eyes, seek immediate medical attention.

#### User Responsibility

Pangaea is a non structural overlay. It will not prevent or restrain movement to the substrate. Although it has a certain amount of flex, excessive movement, vibrations, and existing cracking joints to the substrate may result in micro cracking. Before using Pangaea be sure to confirm substrate is structural. It is the users responsibility to review and adhere to instruction warnings.

*Please read the above and adhere to the guidelines carefully. If you are ever unsure please call the Pangaea Australia for assistance. Failing to adhere to these guidelines will void any and all warranties.*

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