

BLUSKY™ POWER FIX (DIMOND)

High performance, Single Pack, Pre Mixed Water Resistant Cementitious Polymer Modified Stone/Tile Adhesive

Description

BLUSKY™ POWERFIX (DIMOND) is a Grey/white cement based, high performance, high strength adhesive for fixing tiles/stones. The set adhesive is water-resistant and suitable for use in wet areas like swimming pools and water bodies.

BLUSKY™ POWERFIX (DIMOND) Grey/ White is ideal for fixing vitrified tiles, industrial grade tiles, natural stones on wall/floor in interior/exterior situations up to 6mm bed thickness (can be extended up to 12 mm in area of limited extent).

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

Standards

Confirms to **IS 15477: 2019 Type 3T** "Specification for Adhesives for use with Ceramic, Mosaic and Stone Tiles"

Confirms to **EN 12004: 2017** and is an improved cementitious adhesive (C2) with slip resistance (T) and extended open time (E) of class **C2TE**

Feature

- Very high bond strength
- Non-slip
- Water resistant
- Easy mixing, smooth application & better workability
- Enhanced flexibility & adhesion can be obtained with addition of **BLUSKY™ FLOWBOND LATEX** (latex additive)

Physical Properties @ 27 ± 2°C

Bed Thickness: 4 - 6 mm (can be extended up to 12 mm in area of limited extent)

Pot Life: 3 hours

Setting Time: 24 hours

Temperature Resistance: -30° C to 150°C

VOC Content: 1.26 g/L

Suitable background/ bases

New substrates:

- Concrete walls & floor
- Cement sand screed
- Cement sand render

Renovation works on existing:

- Unglazed tiles
- Hard natural stones
- Glazed tiles (vitrified and ceramic tiles)
- Mosaic tiles and In-situ mosaic flooring

Characteristics as per IS 15477: 2019 @ 27 ± 2°C

Property with Test Method	Min. Requirements	Result
Tensile Adhesion Strength(A)		
Dry Condition	1.5 N/mm ²	>1.5N/mm ²
Wet Condition	1 N/mm ²	>1.1 N/mm ²
Shear Adhesion Strength(B)		
Dry Condition	1.5 N/mm ²	>1.6 N/mm ²
Heat Aging Condition	1N/mm ²	>1.2N/mm ²
Wet Condition	1N/mm ²	>1.1N/mm ²
Open time(C)	As per Mfgr.	30mins
Adjustment time(D)	As per Mfgr.	20mins
Slip (E)	< 0.50 mm	0.30 mm

Characteristics as per EN 12004: 2017 @ 22 ± 2°C

Property with Test Method (Part 2)	Min. Requirements (Part 1)	Result
Tensile Adhesion Strength (Clause 8.3)		
Initial	≥ 1N/mm ²	> 1.30N/mm ²
After water immersion	≥ 1N/mm ²	> 1.10 N/mm ²
After heat aging	≥ 1N/mm ²	> 1.10 N/mm ²
After freeze-thaw cycles	≥ 1N/mm ²	> 1.10 N/mm ²
Open time @ 20 mins:		
Tensile Adhesion Strength (Clause 8.1 & 8.3)	≥ 0.50 N/mm ²	> 0.60 N/mm ²
Slip (T) (Clause 8.2)	≤ 0.50 mm	0.30 mm

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website www.bluskyspl.com

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Coverage:

Approx. 1.3 to 1.4 Kg /mm/m²

Square notch Trowel size	Consumption/m ² (@ 45° angle of trowel)
4mm X 4mm	1.80 - 1.85 Kgs
6mm X 6mm	2.70 - 2.80 Kgs
8mm X 8mm	3.60 - 3.70 Kgs
12mm X 12mm	5.35 - 5.50 Kgs

Packing Size:

20 kg waterproof laminated HDPE bag.

Application Instructions

Substrate Preparation

Before starting any work ensures that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive.
- Suitable for tiling in the service conditions to which it will be exposed.
- Surfaces to be tiled must be dry, clean and free from loose material and contamination.

Surface considerations (New Concrete Bases)

- Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks.

(New Cement Sand rendering/Brick/Block Wall)

- Before commencing tiling, allow plastered surface to air dry for at least 2 weeks (3 weeks for swimming pools).

(Existing Concrete/Screed Bases)

- Cut out all loose or hollow portions and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat* and dry and cure for 7 days.

(Ceramic/Vitrified & Fully Vitrified Tile/Terrazzo / Hard Natural Stone Bases)

Check that existing finish is firmly adhering to the base. Remove any loose or hollow sounding tiles and re-profile with a 1:3 cement: sand mortar over a slurry bonding coat

*Slurry bonding coat is prepared by mixing 2 parts of Portland cement to 1 part of **BLUSKY™ FLOWBOND LATEX**. Brush on the base immediately before applying the

Mixing

Add 20 kgs of **BLUSKY™ POWERFIX (DIMOND)** Grey/ white clean water. Mix thoroughly until a homogeneous lump-free consistency is obtained. Allow the mixed adhesive to polymerise for 2-5 minutes and mix again for 30 seconds. The adhesive is ready-for-use and has a pot life of 3 hours. No further water should be added. Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 1: 3.6 (water: powder)

Water Content

20 kg Bag : 3.90 to 4.10 ltrs

In case of using latex additives,

Water+ **BLUSKY™ FLOWBOND LATEX**

20 kg Bag : 3.10 to 3.20 ltrs+1 ltrs of **FLOWBOND LATEX**

Application

- Spread not more than the area which can be tiled within the open time of the adhesive.
- The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square-toothed notched trowel.
- The tiles should be fixed within the open time of the adhesive and pressed into place with a twisting and sliding action ensuring solid bed fixing is achieved. The open time is dependent on site conditions and will be extended in lower temperatures and shortened at higher temperatures.
- Check periodically that good contact is maintained with the back of each tile.
- Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
- Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
- Clean off surplus adhesive from the tile face and between Joints

Shelf Life & Storage

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C

Precautions

Preferably store in sealed conventional containers, protected from extreme weather conditions.

Clean all tools and application equipment with water before it set. Clean immediately after use. Hardened / cured material can only be mechanically removed.

Safety

Wear hand gloves, safety shoes and safety goggles while using and handling the product.

In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.bluskyscpl.com

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