

FLEX PUA 222

Multi Surface Flexible Adhesive

DESCRIPTION

Flex PUA 222 is a two-component modified polyurethane-based adhesive designed for superior bonding strength, flexibility, and long-lasting durability. It is suitable for fixing a wide range of tiles—including ceramic, vitrified, stone, and mosaics—on various substrates such as metal, plywood, and dry walls in interior and exterior settings.

USES

- All types of Tiles
- Natural stones
- Composites / Artificial / Nano / Engineered stone
- Large Format tiles
- Metal & Glass tiles
- Glass mosaic
- Vitrified tiles
- Internal & External applications

ADVANTAGES

- For floor, wall & ceiling - interior & exterior.
- Water, freezing, thermal shock resistant.
- Excellent bonding strength
- Excellent tensile adhesion & shear adhesion strength- superior quality.
- Sustains heat ageing - Idea for external & high temperature applications.
- Chemical resistant & resistance to solvents, alkalis & oils.
- For dry & wet application areas.
- Provides shock & load resistance.
- Excellent waterproofing properties.
- Low VOC

SUBSTRATE

- RCC
- Cement sheet
- Plaster
- AAC blocks
- Tile on Tile
- Stone
- Glass
- PVC
- Metal surfaces
- MDF & wood derivative
- Plywood
- Rubber
- Epoxy/ PU based substrate

SURFACE PREPARATION

The surface should be sound and thoroughly cleaned. Old surface should be free from wax, grease, dirt, flakes & loose particles. All surfaces must be plumb and true to within 6 mm in 10 ft.

MIXING

Thoroughly mix Parts A and B in a 1:4 ratio using a low-speed (≈ 400 rpm) mixer, starting from the bottom to up. Add Part B to the container with Part A, ensuring a smooth, uniform, and evenly coloured mixture. Only mix an amount that can be used within 45 - 60 minutes at 25 °C.

COVERAGE

Around 8 sq.ft. Per 4 KG with notch trowel for a bed thickness of 3 mm.

Coverage will vary depending on trowel notch size, type and size of tile and substrate smoothness and evenness.

COMPLIANCE STANDARD

IS 15477:2019, EN 12004.

PRECAUTIONS

CEMSEAL Flex PUA 222 should be kept away from direct sunlight, humidity & dampness.



IS : 15477



CM/L - 7300131006

TECHNICAL INFORMATION

Properties	Standard test method	Results
Appearance	-	Part A: Pale Yellow / Part B: White
Grade	-	Type 5T S2 & R2T*
Bulk density	-	1800 Kg/ Cubic Mtr.
Tensile adhesion @ 28 days	IS 15477:2019, EN 12004	>2.5 N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	>7.0 N/mm ² (dry)
Pot life	-	> 1 hour [#]
Adjustability in minutes	IS 15477:2019, EN 12004	> 60
Slip resistance in mm	IS 15477:2019, EN 12004	< 0.5
Open time in minutes	IS 15477:2019, EN 12004	>60
Transverse deformation (S2)	IS 15477:2019, EN 12004	≥5 mm

*T=Thixotrophy | S2= Highly Deformable

[#]Although pot life is 1 hour, we recommend to use within 45 minutes for the best results.

METHOD OF APPLICATION

- Spread the adhesive to required bed thickness and comb with a notch trowel.
- Strictly apply the adhesive part which can be tiled within 10 to 15 minutes.
- Start placing the tiles on the surface. Tap the tiles properly to ensure complete coverage on the backside of tiles. Regularly check the adhesive ribs; if a skin has formed, remove the dried adhesive and reapply fresh adhesive.

LIMITATIONS

Do not use Cemseal Flex PUA 222 on polystyrene, uncured or moisture-prone substrates, or for bonding transparent glass.

CURING

Allow tiling to set for 24 hours and start filling joints next day with CEMSEAL WATERPROOF TILE GROUT or CEMSEAL EPOXY GROUT.

CLEANING

Material should be removed from tools & equipment immediately after use with clean water, only hardened material should be removed mechanically.

STORAGE LIFE & CONDITION

12 months on sealed pack at room temperature in dry area.

AVAILABLE PACKINGS

4 Kg bucket.

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HEALTH AND SAFETY

May irritate eyes & skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Do not consume in any way. May cause serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas. Keep out of reach of children.

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of CEMSEAL INDUSTRIES LTD.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.

Address

Plant 1 :C-1/B-96-97 G.I.D.C Industrial Estate, Kalol, Panchamahar, Gujarat - 389330

Plant 2 :Plot no 30, Marble Market Sejbahar, Rajpur, Chhattisgarh - 492015

Web : www.cemseal.net | **Contact no** : +91 90992 66166