

Expansion Joint Tape Adhesive

DESCRIPTION

TIKIFIX EP is a two component solvent free high performance Epoxy based bonding adhesive specially designed for bonding **TIKIFLEX** series of Expansion joint tapes to different surfaces.

It is suitable for use on horizontal and vertical surfaces.

ADVANTAGES

- Solvent free - ecofriendly.
- Thixotropic - suitable for over head and vertical applications.
- Extended pot life to ease positioning and alignment of expansion joint tapes / profiles.
- Suitable for use across wide temperature range (-) 30°C to 50°C.
- Excellent weather and water resistant.
- Suitable for application on dry and damp concrete surfaces.
- Root resistant.
- Excellent adhesion to wide variety of surfaces.
- Good abrasion and wear resistance.
- Good chemical resistance.

USES

Used as adhesive/bonding agent for bonding TIKIDAN'S **TIKIFLEX** series of expansion joints tapes.

PRODUCT DATA:

Colour	Part A Resin Component: White
	Part B Hardener Component: Black
	Part (A+B) Mixture: Grey
Density @25°C	Part A Resin Component: 1.70 - 1.90 Kg/l
	Part B Hardener Component: 1.80 - 1.90 Kg/l
	Part (A+B) Mixture: 1.75 - 1.90 Kg/l

PROPERTIES

PROPERTY	VALUES
Mixing Ratio, Part A : Part B	2 : 1 (by Weight)
Service Temperature, °C	-30 to +50
Pot life @ 30°C, minutes, ASTM D2471	≈40
Bond Strength with concrete, N/mm ²	> 1.5 (Failure in concrete)
Compressive Strength @ 7 days, N/mm ² , BS 6319 Part 2	≥45
Tensile Strength @ 7 days, N/mm ² , BS 6319 Part 7	≥18
Shear Strength @ 7 days, N/mm ² , BS 6319 Part 4	≥8
Flexural Strength @ 7 days, N/mm ² , BS 6319 Part 3	≥25

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All surfaces must be sound, clean, free from cracks and crevices, undulations, oil, grease, cement laitance, paint, rust and all loosely adhering particles.

The support defects, if present must be repaired prior to the application of adhesive.

The Expansion joint tapes to be bonded to the concrete shall be cleaned to remove oil, grease, foreign contaminants, etc., ensuring maximum bond formation.

Prior to application, suitably position the expansion joint profile/tape on the surface and mark using a suitable marker to enable application of the epoxy bonding material.

APPLICATION

The application temperature shall be between 5°C and 40°C, with relative humidity 85% max and avoid condensation while applying.

The mixing should be carried out with full packs only.

Pour entire content of Hardener component (Part B) gradually to the Resin component (Part A) under continuous stirring and continue mixing for 2-3 minutes to achieve homogenous colored mix.

Once mix is prepared, apply the mixed material within the pot life on to the well prepared clean and dry substrate in a thin, continuous film using stiff bristle brush/ spreader (putty blade/trowel) to approximate thickness of 1mm.

On rough or porous surfaces a thicker application of adhesive will be required in order to assure contact between the matting surfaces.

Do not use adhesive on surfaces having undulations, depressions as it may promote development of air pockets compromising the bond.

Allow the applied adhesive to develop sufficient tack before the expansion joint profile / tape is placed on it.

The expansion joint profile/tape is positioned and aligned / leveled over the applied adhesive and pressed gently under the twisting action to release the entrapped air and ensure that no air pockets are left between the matting surfaces.

For overhead application, the expansion joint tape shall be temporarily supported / held in position using a suitable fastener or an adhesive tape until applied adhesive develops its strength.

Allow the assembly to cure for at least 24 hours at ambient temperature before putting in service.

CONSUMPTION

Consumption vary dependent on surface and site conditions. Wastage of 10% due to handling and mixing should be considered extra on below values.

Strip Width	Strip Thickness	TIKIFIX EP Consumption
10 cm	1 mm	≈ 0.7 kg/m
15 cm	1 mm	≈ 1.0 kg/m
20 cm	1 mm	≈ 1.2 kg/m
10 cm	2 mm	≈ 0.8 kg/m
15 cm	2 mm	≈ 1.1 kg/m
20 cm	2 mm	≈ 1.4 kg/m
25 cm	2 mm	≈ 1.7 kg/m
30 cm	2 mm	≈ 2.0 kg/m

CLEANING

Immediately after application of **TIKIFIX EP**, use suitable solvent for cleaning application tools.

SUPPLY

TIKIFIX EP is supplied as two component kit comprising of Resin and Hardener. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

PACKING

Component	Resin (Part A)	Hardener (Part B)
Pack Size	4 Kg.	2 Kg.

STORAGE

TIKIFIX EP must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, and children.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **TIKIFIX EP**.

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