

# Dr. Fixit Tape Adhesive



## EXPANSION JOINT TAPE ADHESIVE

### Description

2-Part high performance Epoxy adhesive specially designed for bonding Dr. Fixit Seal Tape series of Expansion joint tapes to different surfaces. It is solvent-free, non-sag, multipurpose bonding agent for suitable for use on horizontal and vertical surfaces.

### Area of Application:

- Used as adhesive/bonding agent for bonding Dr. Fixit's Sealing Tape series joints tapes to treat Expansion Joint, Construction Joint, Crack treatment and Precast panels joint treatment.

### Features

- Solvent free - eco-friendly.
- Thixotropic - suitable for overhead 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.
- Excellent adhesion to wide variety of surfaces.
- Good abrasion and wear resistance.
- Good chemical resistance

### Method of Application

#### 1 SURFACE PREPARATION

- Contact surfaces must be sound, clean and free from dust, grease, water, oil, cracks, honeycombs and other contaminants impairing adhesion.
- Concrete should be at least 4 weeks old with moisture content <4%.
- In order to provide maximum adhesion, concrete surfaces should be mechanically abraded.

#### 2 MIXING:

- Mix parts A+B of Dr. Fixit Tape Epoxy Adhesive together for at least 2-3 minutes with a mixing spindle attached to a slow speed (200 -300 RPM) mechanical mixer (max 600 rpm) until the material becomes smooth in consistency and a uniform grey colour.
- Avoid aeration while mixing.
- Mix only that quantity which can be used within its pot life.

#### 3 INSTALLATION OF SEALING TAPE:

- Apply the well mixed Dr. Fixit Tape adhesive on both sides along the joint or crack on the prepared substrate with a layer thickness of adhesive ~ 1- 2 mm. preferably with a notched trowel or spatula, the selection tape width should be minimum 50mm to 75mm depending on the gap width on either side of the joint/crack width to be sealed.
- The centre of the Dr. Fixit Seal Tape must remain unbonded to the substrate. For this reason, insert a foam backer rod inside the joint and apply masking tape on top of the joint / crack and on both sides of the joint before applying the adhesive.
- Before placing the Dr. Fixit Seal Tape remove the masking tape placed at the centre on top of the joint / crack. Apply the Dr. Fixit Seal Tape within the open time of the adhesive. Press the tape firmly to avoid any air entrapment into the adhesive by using a suitable roller. Apply the Dr. Fixit Seal Tape, Let the base layer of the Dr. Fixit Tape adhesive achieve initial set before the top layer is applied.
- Apply a Masking tape at the middle of the Dr. Fixit Seal Tape. Cover the Dr. Fixit Seal Tape adhesive at a thickness of ~ 1 mm over the full width of Tape extended upto lateral masking tapes. This is followed by the immediate



removal of the masking tape from the middle as well on both sides to ensure a neat and precise finish.

- For Joint over end laps, the overlaps the surfaces must be clean, wiped and heat welding the joints with at hold air welding gun with 100 mm overlap. After application the system should be allowed to cure for 7 days.

### Precautions & Limitations

- Always mix a full pack. Do not mix part packs.
- Do not expose applied material before initial cure to moving water.
- Protect from rain before initial cure to prevent surface deformations.
- Lower site temperatures may reduce workability whilst reaction times (pot life & full cure) are extended. Higher temperatures shorten the pot life.
- The Dr. Fixit Seal adhesive mixed should be used within the pot life of the mix.
- Avoid application on damp and moist substrates and application temperature shall be between 5°C and 40°C

### Technical Information: Density

- Part A : 1.70 kg/l (at +27°C)
- Part B : 1.90 kg/l (at +27°C)
- Part A+B Mixed : 1.75 kg/l (at +27°C)

### Technical Information

PHYSICAL PROPERTIES	RESULTS
Mixing Ratio, Part A Resin : Part B Hardener	2:1
Colour	Part A : White, Part B: Black Part A+B=Grey
Service Temperature, °C	-30 to +50
Density @25°C	Part (A+B) Mixture: 1.75 - 1.90 Kg/l
Pot life @ 30°C, minutes, ASTM D2471	≈ 40
Bond Strength with concrete, N/mm <sup>2</sup>	> 1.5 (Failure in concrete)
Compressive Strength @ 7 days, N/mm <sup>2</sup> , BS 6319 Part 2	≥ 45
Tensile Strength @ 7 days, N/mm <sup>2</sup> , BS 6319 Part 7	≥ 18
Shear Strength @ 7 days, N/mm <sup>2</sup> , BS 6319 Part 4	≥ 8
Flexural Strength @ 7 days, N/mm <sup>2</sup> , BS 6319 Part 3	≥ 25

### Theoretical Coverage

Consumption varies dependent on surface and site conditions. Wastage of 10-15% due to handling and mixing should be considered extra on below values

Tape Width	Tape Thickness	Adhesive Consumption
150 mm	1mm	~1.1 Kg/m
200 mm	1mm	~1.4 Kg/m
250 mm	1mm	~1.7 Kg/m
300 mm	1mm	~2.0 Kg/m

### Packing

Available Packing	Resin (Part A)	Hardener (Part B)
Pack Size	4 Kg	2 Kg



### Storage & Shelf Life

Shelf life of 12 months from the date of manufacturing in unopened condition.

It is essential that goods are kept in the original packaging, keep cool and dry, protect against sunlight.

### Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals



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