

Dr. Fixit Seal Tape



FLEXIBLE POLYOLEFIN SEALING TAPE FOR BUILDING JOINTS & CRACKS

Description

Dr. Fixit Seal Tape is a highly elastic, rot-proof and chemically resistant sealing membrane for installation on various building joints/cracks in critical areas with high and / or frequent movements. It is adhered to the substrate with an epoxy based adhesive like Dr. Fixit Tape Adhesive, a two-part epoxy compound establishing a strong bond to various types of substrate.

Area of Application:

- Sealing of construction joints, expansion joints, connecting joints, cracks, and crevices, etc that are subjected to considerable high and or frequent movements.
- Typical uses are for concrete tanks, cast and cement-pipe connections, bridge decks, tunnels, Water retaining structures and drinking water reservoirs, Joints between rigid and flexible surfaces.
- It is ideal for joints with very large expansion or irregular, broken joints flanks., dynamic cracks and natural joints on structure, Expansion joints in precast panels.
- Building sections where varying settlement is expected leading to cracks & Repair of leaking or failed joint sealants

Features

- Long lasting elasticity, even at high temperatures
- No activation on site required
- Resistant to UV exposure
- Resistant to root penetration
- User friendly heat welding of tape overlaps
- Can be applied horizontally, vertically, and even overhead
- Resistant to a wide range of chemicals
- Cost effective
- Easy to apply

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

- It is suggested to smooth the edges of epoxy with a brush some minutes after removing the masking tape.
- In case of exposed condition/ Trafficable joint/higher water pressure > 1.5 bar up to 3 bars, protect the joint with a metal plate screwed at one end.
- No activation on job site is required. In case of dirt, clean the surface of the Dr. Fixit Seal Tape with a dry or wet cloth. Use nothing but water for cleaning, any other SOLVENTS should be avoided.
- 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.
- Use appropriate tape width based on joint/crack to be sealed.
- Ensure the tape should remain unbonded over Joint/crack area to allow free movement. For higher joint movement, (>20mm), loop tape into the gap of the joint.

Technical Information

PARAMETERS	RESULTS		TEST METHOD
Colour	Grey		Internal
Total Thickness	1.0mm±0.1	2.0mm±0.1	EN1849-2
Total length per roll	20 meter		Internal
Tape width	150mm, 200mm, 250mm, 300mm & 1000mm		Internal
Material weight	≥950 g/m ²	≥1750 g/m ²	EN 1849-2
Shore D Hardness	approx. 28		ASTM D2240
Tensile Strength	>12.5 Mpa		EN 12311-2
Elongation	≥ 800 %		EN 12311-2
Resistance to Tearing (Nail Shank)	≥ 200 N	≥ 400 N	EN 12310-1
WaterTightness@60 kpa /24hrs	Watertight		EN 1928, Method A
WaterTighness@400 kpa /72hrs	Watertight		EN 1928, Method B
Resistance to Root Penetration	pass		CEN/TS 14416
Resistance to Impact, Procedure A	>= 800mm	≥ 1500 N	EN 12691
Resistance to Static Load, Method C	20Kg		EN 12730
Chemical resistance	pass		EN 1847
Resistance to Fire	Class E		EN ISO 11925-2
Durability of Water Tightness against Chemicals	Impermeable		
(Ca(OH) ₂ , 28 days / +23°C)			EN 1847
(Method B, 24 hours / 60 kPa)			EN 1928
Durability of Water Tightness against Ageing			
(+70 °C / 12 weeks)	Impermeable		EN 1296



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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