

Dr. Fixit PidiJoint 200 AP

2K PU Joint Sealant, Fuel and Oil Resistance

Description

PidiJoint 200 AP is a high performance polyurethane based joint sealants. It has excellence resistance property to hot fuel fume and oil. Application does not need heating nor flame. PidiJoint 200 AP is cured when two components are mixed together.

PidiJoint 200 AP is designed for airports concrete runway sealant. And fully meets airport requirements SS-S-200E for fuel and oil resistance sealant.

Areas of Application – Concrete Pavement Joints in:

- Airport runway, taxiway, docking terminal, hangar.
- Petrochemical facility road, dock, spillage containment.

Rate of Uses based on Specified Dimensions

* Theoretical consumption without allowance for loss.

Width x Depth		Consumption			
mm	mm	Kg/m	m/kg	m/unit	Unit/1,000 m
10	13	1.7	8.0	0.16	89
13	13	2.2	6.4	0.20	71
1.7	65	2.8	4.9	0.26	55
15	15	3.3	4.3	0.30	47

Method of Application

PidiJoint 200 AP is applied after concrete is fully set and cured. And joint slot is correctly cut and formed.

Joint Slot Preparation:

- Concrete surface must be completely cured, dry, clean, strong, and free of all loose material. Materials and dust free, oil stain, wax, liquid coating/paint, concrete curing agent, grease, and loose aggregate. Sand blast as required.
- Remove all slurry and loose aggregate with oil-free compressed air.
- Wet surface and surface with frost are not acceptable. Surface must be dry.
- Fill the bottom of the joint with backing rod. If the joint is too narrow, use de-bonding tape or caulk. Ensure that joint has good adhesion on joint walls and not joint bottom.
- To ensure best possible joint quality, use Dr Fixit Pidijoint 200 Primer. However, primer can not bond with contaminants. And primer cannot seal in loose aggregate. Let the primer set and cure between 30 minutes to 1 hour before apply sealants.

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Application :

Mixing ratio by weight: 10 part A to 1 part B. Please note that PidiJoint 200 is sold as a set and part A and part B are already weighted in each container. Therefore, one set of larger part A container is used with one set of smaller part B container.

Mix the components with low speed mixer at (250 - 300 rpm/min) until content is homogeneous.

Do not over mix. Normally, mixing is done for around 4 minutes. Do not use high speed mixer. Over mixing can result in bubbles and void inside joint sealant.

Mixing PidiJoint 200 AP to mix in the shade. After mixing is complete, do not place the mixture in the sun. Because it will make the mixture set up faster.

Do not apply sealants when surface temperature is colder than **5 °C**

Do not apply sealants when surface temperature is hotter than **50 °C**

Drying and Curing time

Substrate temperature	10 °C	25 °C	30 °C	40 °C
Pot Life.	2 hour	1 hour	30 minute	15 minute
Tack Free Drying Time hrs.	8	4	4	2
Dried/cured for service, hrs.	72	48	24	12

Limitations & Precautions

PidiJoint 200 AP is designed for concrete joints and not suitable for asphalt pavements.

Standard

- US Federation Specification SS-S-200E
- BS 2499 Type B1,B2

Comply with the standard

- ASTM D3569
- ASTM D1854
- ASTM D3406

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Properties

Properties	Standard (SS-S-200E)	Result Test
Part A+Part B		
1. Specific Gravity at 25°C	Kg/cm ³	1.28-1.30
2. Cone Penetration @25°C, 150 g, 5sec After 7 day (0.1 mm.)	</= 130	50
3. Cone Penetration (Fuel)@25°C, 150 g, 5sec After 7 day (0.1 mm.)	</= 130	47
4. Fuel Resistance 49±1°C , 24 hrs.	No specimen shall develop any crack, separation, or other opening in the sealing compound or shall develop any separation between the sealant and the concrete block deeper than 6.4 mm when measured perpendicular to the sealant surface and down the interface of block in the area showing the effect.	pass
5. Nonimmersed Bond strength: Three complete cycles of 50% extension each, at -17.8 °C strain rate of 3.1 mm/h. test performed on three specimens.	No specimen shall develop any crack, separation, or other opening in the sealing compound or between the sealing compound and the mortar blocks	pass
6. Water-Immersed Bond strength Three complete cycles of 50% extension each, at -17.8 °C strain rate of 3.1 mm/h. test performed on three specimens.	No specimen shall develop any crack, separation, or other opening in the sealing compound or between the sealing compound and the mortar blocks	pass
7. Fuel-Immersed Bond strength Three complete cycles of 50% extension each, at -17.8 °C strain rate of 3.1 mm/h. test performed on three specimens.	No specimen shall develop any crack, separation, or other opening in the sealing compound or shall develop any separation between the sealant and the concrete block deeper than 6.4 mm when measured perpendicular to the sealant surface and down the interface of block in the area showing the effect.	pass
8. Water -Immersed Bond strength Three complete cycles of 50% extension each, at 70 °C strain rate of 3.1 mm/h. test performed on three specimens.	No specimen shall develop any crack, separation, or other opening in the sealing compound or shall develop any separation between the sealant and the concrete block deeper than 6.4 mm when measured perpendicular to the sealant surface and down the interface of block in the area showing the effect.	pass
9. Flow : at 70 °C, 72h, inclined 75°	No flow	No flow
10. Resilience : 25°C, recovery %	75 min	98
11. Resilience : Oven aged at 70°C, 24 h: at 25°C recovery %	75 min	94
12. Artificial weathering (160 hrs.)	The panel test specimens in a detailed manner for indication or presence of breakdown of cure, lack of cure, or any blistering.	pass
13. Elongation at break	%	>900
14. Solubility (Weight loss)	Weight loss ± 2%	-0.02 %
15. Flame resistance	The sealant shall not show any evidence of ignition support of combustion, hardening or loss of flexibility, flow, or separation during heat	Pass

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	exposure, or upon examination after colling, or any separation or loss of adhesive strength between sealant and concrete blocks	
16. Water absorption (24 hours)	ASTM D570-22	< 1.5%

Packaging

- 19.8 kg set, 18 kg part A and 1.8 kg part B
- 3.85 kg set, 3.5 kg part A and 0.35 kg part B

Color : Black

Shelf Life & Storage

6 months in sealed container kept under cool between 5 °C and 35 °C away from direct sunlight and rain.

Health & Safety Precaution

- Avoid skin contact and eye contact.
- Wear respirator, goggle, protective clothing during application.

The product information and the recommendations relating to the application and end-use of Dr.Fixit products, are based on Dr.Fixit's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Dr.Fixit's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Dr.Fixit reserves the right to change the properties of its products without notice, so the company does not assume liability of any legal from this product information.

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