Dr. Fixit Pidiseal PS 41G

TWO PART GUN GRADE POLYSULPHIDE JOINT SEALANT

Description

Dr. Fixit Pidiseal PS 41G is a two part elastomeric sealant which when mixed and applied cures by chemical reaction to form a tough, flexible rubber seal. It is recommended for sealing construction and expansion joints.

Typical Applications

- Internal and external wall cladding.
- Structural concrete.
- Water retaining structures such as dams, canals and culverts.
- Brick and blockwork.
- High rise structures.

Features

- Gun grade suitable for vertical joints.
- Highly elastic.
- Excellent adhesion to a wide range of construction materials.
- Accommodates continuous and pronounced cyclic movement.
- Non shrink.
- UV resistant.
- Chemical resistant.
- Non-toxic.

Packaging

2.5 litre

Method of Application

1 SURFACE PREPARATION

- Joint surfaces must be sound thoroughly clean and dry and free from grease, oil any other contamination. All dust and debris must be removed by wire brushing, grinding and vacuuming. Damaged joints should be repaired first using a suitable mortar from the Pidilite range.
- Ensure that the filler material such as closed cell polyethylene sheet or rod is tightly packed and no gaps or voids are evident at the base of the joint. Where backing rod is not fitted a bond breaker tape must be used.
- Fix masking tape on both sides of joint surface to provide a neat appearance and ensure the tape is removed immediately after tooling.

2 PRIMING

- Prime, avoiding ponding at the base of the joint, with Dr. Fixit Pidiprime A by brush. Particularly porous surfaces should be primed twice. Apply the second coat of primer when the first is tack free but within 3 hours. Sealants should be applied as soon as the primer is touch dry and within 8 hours. If this time is exceeded a fresh coat of primer should be applied.

3 MIXING

- Add curing agent to resin and mix thoroughly with a slow speed electric mixer (300 – 450 rpm) for approx. 2-3 minutes until a homogenous and uniformly grey coloured material is obtained.

4 APPLICATION

- Dr. Fixit Pidiseal PS 41G is a thixotropic material, after mixing it can be applied directly by spatula or via a sealant gun.

5 FINISHING

- Tool PS 41G sealant immediately with tooling knife if necessary to ensure 100% contact with both surfaces.

6 CLEANING

- After sealing the joint the tools and equipment should be cleaned immediately with Dr. Fixit Resin Cleaner.

7 CURING

- Allow sealant to cure for 7 days before carrying out any testing. Protect the joints from water for at least 24 hours and chemicals for 7 days.

Note:

- Maximum joint width for application is 50 mm.
- Do not expose the sealant to high temperatures.
- Do not use in direct contact with materials containing pitch or bitumen.
- Over painting of sealants is not recommended, due to flexibility differential. If required however always carry out site trials to determine compatibility.

Technical Information

PROPERTIES	RESULTS
Form	Two Component Paste
Colour	Grey
Solids Content	100%
Density	1.56 kg/litre
Physical/Chemical Change	Chemical cure
Hardness Shore `A´ at 25°C	23 - 26
Movement Accommodation Factor	+/- 25%
Application Temperature	10°C to 50°C
Service Temperature	20°C to 80°C
Pot Life at 25°C	120 minutes
Setting Time	36 hours at 15°C 18 hours at 25°C
Cure Time	2 weeks at 15°C 1 week at 25°C

CURED CHARACTERISTICS

Hardness, Shore A	ASTM D 412	12 - 20
Tensile Strength at break, kg/cm^2	ASTM D 412	3 - 5
Elongation at break, (%)	ASTM D 412	500 - 600
Adhesion / Bond Strength, Kg/2.5 cm	BS 4254	3 - 4
Plastic deformation, %	BS 4254	15
Staining	BS 4254	No stain
Movement Accommodation Factor		25% for butt joints and 50 % for lap joints
Service Temperature Range		- 15°C to + 80°C

Chemical Resistance (Occasional Spillage)

PROPERTIES	RESULTS
Dilute Acids	Resistant
Dilute Alkalis	Resistant
Aviation Fuel	Resistant
Kerosene	Resistant
Lub. Oils	Resistant
Skydrol	Resistant
White Spirit	Resistant

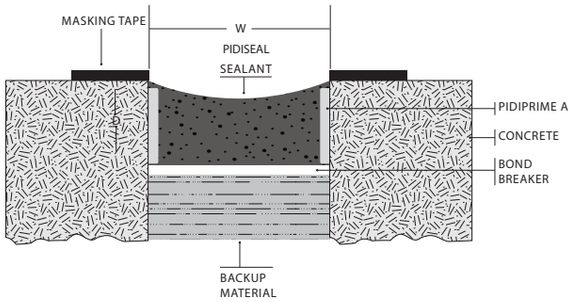
Note:

Product must be fully cured before permanent immersion in water.

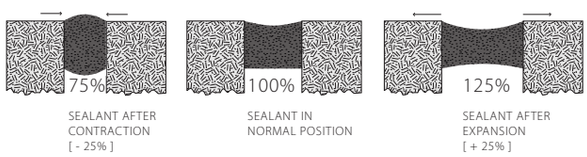
Joint Design Criteria

Dr. Fixit Pidiseal PS 41G may be applied to joints between 5 mm and 50 mm wide. Different size joints require different width/depth ratios. This is subject however to the overriding recommended minimum sealant depths of 5 mm for metals glass and other non-porous surfaces, 10 mm for all porous surfaces and 20 mm for all trafficked joints and those subject to hydrostatic pressure.

JOINT WIDTH (MM)	WIDTH / DEPTH RATIO
For 6 to 12 mm joint width	Depth shall be 1 : 1 (equal)
For 12 to 25 mm joint width	Depth shall be 2 : 1 (half)
For 25 to 50 mm joint width	Depth shall be half or less than half



JOINT DESIGN - SEALANT APPLICATION



MOVEMENT ACCOMMODATION FACTOR (MAF)

To ensure the sealant remains within its stated movement capacity (25% MAF), joint widths should be designed in accordance with the recommendations of BS 6093.

The use of primer is always required on porous surfaces.

Estimating

Joint Size in mm	Litres per *LM	*LM per Pack	*LM per 2.5 Litre Pack
5 x 5	0.025	160.00	100.00
5 x 10	0.050	80.00	50.00
10 x 5	0.050	80.00	50.00
10 x 10	0.100	40.00	25.00
20 x 10	0.200	20.00	12.50
20 x 15	0.300	13.33	8.30
20 x 20	0.400	10.00	6.20
40 x 20	0.800	5.00	3.10
40 x 25	1.000	4.00	2.50
40 x 30	1.200	3.33	2.00
40 x 40	1.600	2.50	1.50
50 x 25	1.250	3.20	2.00
50 x 30	1.500	2.66	1.60
50 x 40	2.000	2.00	1.25
50 x 50	2.500	1.60	1.00

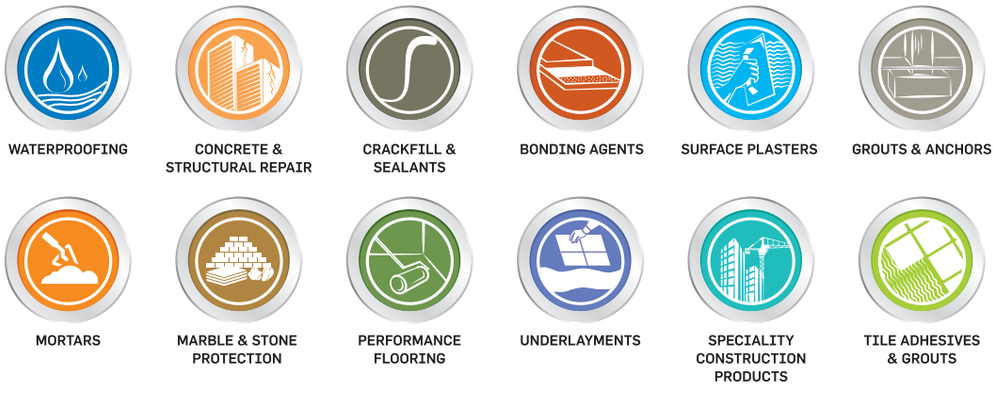
Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

Health and Safety

Dr. Fixit Pidiseal PS 41G is harmful if swallowed. Avoid contact with eyes and skin. Wear suitable protective gloves and eye/face protection. In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention. Hands should be thoroughly washed with soap and water before eating or smoking. Cured sealant should not be burned off due to generation of toxic fumes. Empty containers should be disposed of in accordance with waste disposal regulations. For further details refer to Material Safety Data Sheets.

DR. FIXIT offers a wide range of Structural Protection and Waterproofing systems:



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