



Dr. Fixit Pidiseal PS43, Grey

FUEL RESISTANT, TWO-PART POLYSULPHIDE SEALANT

Description

Dr. Fixit Pidiseal PS43, Grey is a two-part elastomeric sealant based on a liquid polysulphide polymer which when mixed with accelerator (curing agent) cures by chemical reaction to form a tough, flexible rubber seal. This sealant has excellent fuel resistance, adhesion to different substrates like masonry, concrete with excellent movement accommodation. It is far more superior to conventional joint sealant materials such as bitumen, mastics and expansion-sheets.

Typical Applications

- Parking and cargo areas.
- Sealing of moving and construction joints in bridges & concrete highways.
- Airport runways, Aircraft fueling & parking areas.
- Garages & subways.

Features

- **Application** - Cold applied, no pre-heating is required.
- **Pourability & self-levelling** - Easily pourable from the container directly and it self-levels itself, so saves time and labour.
- **Curing** - Cures after application by chemical reaction at ambient temperatures & relative humidity.
- **Resiliency** - Performs well in expansion & contraction movements.
- **Deformation** - Recovers its original size and shape after expansion & contraction movements.
- Resistant to sunlight (UV rays) and ozone.
- Resistant to aircraft fuels.
- Resistant to flame as per BS 5212-1990.

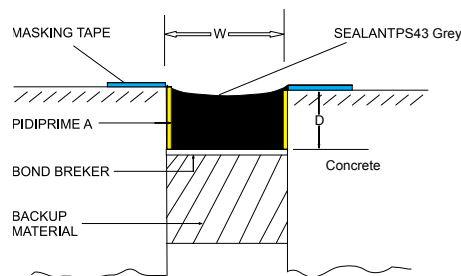
Packaging

- Dr. Fixit Pidiseal PS 43 Grey - 6.5 kg. (approx. 3850 ml)
 - 32.0 kg. (approx. 18850 ml)
 Dr. Fixit Pidiprime A - 500 ml

Joint Design

In trafficable areas stress/strain factor will be higher and so the cured sealant should retain its original shape after the deformation of expansion/contraction hence width/depth ratio factor is very important.

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





Method of Application

1 SURFACE PREPARATION

- Joint edges should be sound and free from grease or oil contaminations.
- If spalled, it should be rectified properly by using polymer mortar or epoxy mortar.
- Use a closed cell polyethylene foam sheet or rod as a back up material.
- Back up material is used to adjust width to depth ratio and falling of sealant while application. Ex. Thermocol sheet can be used as a back up material.
- Fix a bond breaker tape over the backup material to prevent third surface adhesion.
- Fix a masking tape on both sides of joint surface to get neat & clean appearance of joints after application of sealant.

2 PRIMING

Prime only on two sides of the properly prepared joint surface with Dr. Fixit Pidiprime A by brush and allow it cure for minimum 20 minutes. Apply two coats of primer at an interval of 30 minutes. After priming is over, sealants should be filled after minimum 30 minutes and before 90 minutes. If 90 minutes is exceeded a fresh coat of primer should be applied.

3 MIXING

- Mix the content of the individual container thoroughly.
- The curing agent is to be poured in the tin with the base and mixed thoroughly with a slow speed electric mixer (300 to 450 rpm.) for approximately 5-6 minutes until a homogeneous, uniformly grey coloured material is obtained.

4 APPLICATION

PS 43 Grey being a pourable sealant, it is directly poured through the container after mixing into joint which self levels itself

5 CLEANING

After sealing the joint the tools and equipment should be cleaned immediately after application with kerosene or any other cleaning solvents/thinners.

6 CURING

- Allow sealant to cure for minimum 7 days before carrying out any testing.
- Prevent the joints from water after application at least for 24 hrs (best for 7 days).

Precautions & Limitations

- Maximum width for application in a joint is 50 mm.
- Do not expose the sealant to high temperatures.
- Sealant will not adhere to substrates with contamination and traces of bitumen.
- Adhesion of the sealant must only be on two opposite joint faces.
- Do not carry out sealing operations during hot temperature conditions.
- Use of bitumen based board as a back up material should be avoided.
- Pouring Grade version must only be applied in horizontal joints.
- Application to be started only after 30 minutes of priming the substrate.

Note:

- Field services where provided does not constitute supervisory responsibility. Suggestions made by company either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not company are responsible for carrying out procedures appropriate to a specification.

Technical Information

PHYSICAL CHARACTERISTICS

PROPERTIES	SPECIFICATION	TYPICAL VALUE
Appearance		
Base	Visual	Homogeneous, viscous, paste
Accelerator		
Colour		
Base	Visual	Off White
Accelerator		Dark brown to black
Mixed (92:8 by weight)		Grey
Specific Gravity (Mix) kg/ ltr		1.55 - 1.70
Pot life at 30°C	BS 5212	Min 80 minutes
Curing Time at 30°C		Approximately 7 days

CURED CHARACTERISTICS

Hardness, Shore A	ASTM D 2240	10 - 15
Tack Free Condition, @ 30°C 16 Hrs	BS 5212	No adherence of the sealant on the film
Resistance to fuel	BS 5212	
Mass change %	-10 to +5	-1.07
Recovery %	75 min	96
Adhesion and cohesion test	No adhesion and cohesion failure BS 5212	No failure
Flame resistance	BS 5212	Passes the test
Movement Accommodation Factor		25% for butt joints and 50 % for lap joints
Service Temperature Range		- 15°C to + 80°C

Theoretical Coverage

[SEALANT]

$$L = \frac{\text{Vol of sealant in ml}}{W \text{ in mm} \times D \text{ in mm}}$$

Where, L = Length of the joint in linear meter,
W = width of the joint in mm
D = depth of the joint in mm

Shelf Life

Shelf life is 12 months from the date of manufacturing in unopened container. The material should be stored in a cool and dry place.



Health & Safety

- Some people are sensitive to solvents, resins and hardeners so it is advisable to use hand gloves and goggles.
- Avoid application on damp and moist substrates and at temperature below 5°C.
- Prescribed priming is very important.
- Should be stored at cool and dry place.

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Pidilite Industries Limited
Construction Chemicals Division
Ramkrishna Mandir Road, Post Box No. 17411
Andheri (E) Mumbai 400059 INDIA
Tel +91-22-2835 7000 • Fax +91-22-2835 7008
www.drfixit.co.in • info@drfixit.co.in

Dr. Fixit Advice Centre (Toll Free No.) 1800 209 5504

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