

REC FLEX PS 660

HIGH PERFORMANCE TWO COMPONENT POLYSULPHIDE CIVIL SEALANT

DESCRIPTION

REC FLEX PS660 is a two-part polysulphide sealant which when mixed, cures to form a flexible rubber seal. It has good adhesion to concrete, stone, metals and many other common building substrates.

PRIMARY APPLICATIONS

For sealing structural floor joints in various applications such as:

- Parapet wall joints.
- Joints in metal and concrete sea walls.
- Joints in water retaining structures (including potable water when using gun grade).
- Runway aprons and runways
- Road and tile joints.
- Structural Floor Joints.
- Expansion and construction joints.

FEATURES/BENEFITS

- Cold applied.
- Good adhesion to concrete, stone, metals and many other common building substrates.
- Available in two grades, gun and pouring grade.
- UV-resistant.
- High movement accommodation factor.
- High service life.

STANDARDS

Gun Grade:

- BS EN ISO 11600 F 25 LM.
- BS4254 : 1983.
- BS6920 : 1996.
- ASTM C920, Type M, Grade NS, Class 25, Use NT, T, I & M.

Pouring Grade:

- BS 5212 1990 TYPE FB (includes types N & F)

TECHNICAL INFORMATION

Colour:	Grey
Solids:	100%, passess the lead requirements for the VOC content
Typical shore A hardness: ASTM D2240	20 ± 5 for Gun Grade
Working life:	1:30 - 3:30 hr @ 20°C 40 - 60 min @ 35°C
Application temperature:	5 - 50°C
Setting time:	36 - 48 hr @ 15°C 15 - 20 hr @ 25°C

	10 - 15 hr @ 35°C
Service temperature:	-40 to 90°C
*Cure rate:	7 days @ 25°C in a typical 10 mm x 10 mm joint. At colder temperatures the cure rate will be extended
UV resistance:	Good
Biological resistance:	Resist microbiological active situations
Service life:	-20 years (when used in trafficked areas or other special environments the life may be reduced)
Flammability:	Does not support combustion
Movement Accommodation:	
Butt joints (movement in tension and compression)	25%
Lap joints (movement in shear)	50%
VOC:	< 10 g/ltr
<i>*for water immersion, REC FLEX PS660 should be fully cured.</i>	

Occasional Spillage.

Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Citric Acid 25%	RS	Acetone	R
Sodium Chloride sat	R	Brake Fluid	R
Tap Water	R	Engine Oil	R
Chlorinated Water	RS	Diesel	R
Dead Sea Water	R	Kerosene	R
White Spirit	R	Sulphuric Acid 25%	RS
Xylene	R	Hydrochloric Acid 10%	RS
Toluene	R	Nitric Acid 10%	RS

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

DIRECTIONS FOR USE

JOINT PREPARATION

- The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Flex Cleaner.

PRIMING

- RECPRIME PS100** is a universal primer suitable for use with porous and non-porous surfaces. Mix the two components of **RECPRIME PS100** until a homogeneous liquid is achieved.
- Using small brush apply one thin coat at the joint sides and avoid over priming. It is recommended to apply the mixed **REC FLEX PS660** while the primer is still wet or tacky.

MIXING

GUN GRADE

- The base and curing agent ratio controls the adhesion, strength and durability of **REC FLEX**

PS660. The components must therefore be thoroughly mixed. The curing agent and base component are supplied within the same tin and ready for mixing. Mix thoroughly using slow speed drill fitted with proper mixing paddle for 3 minutes. Scrape sides and bottom of the tin and mix again for extra 2 minutes.

POURING GRADE

- **REC FLEX PS660** pouring grade is supplied in two separate tins. the small tin which contains the curing agent should be transferred to the base tin and mix thoroughly as per gun grade above.

APPLICATION

- The normal method of application is to fill the mixed sealant into Flex Barrel Guns using a heavy duty follower plate. The barrel of the gun is placed over the hole in the center of the plate. Steady downward pressure and withdrawal of the plunger rod results in the barrel of the gun being filled.
- To obtain a neat joint finish, apply masking tape on the top of the joint sides before apply the primer or the sealant.
- The sealant is then ready for application. The sealant should be extruded firmly into the joint by maintaining an even pressure on the trigger of the gun.
- All joint preparation, priming, and sealant application should be carried out in accordance with BS8000, Part 16, the British Standard for the sealing of joints in buildings using sealants.

FINISHING

- The freshly applied sealant should be troweled to a smooth finish. A small amount of surface lubricant such as diluted detergent solution may be used to help achieve the right finish. Any masking tape should be removed immediately after troweling while the sealant is still within its working time.

SEALANT QUANTITY ESTIMATOR

Joint size mm	Litres/linear meter	Linear meter/2.5 ltr pack
5 x 5	0.025	100.00
5 x 10	0.050	50.00
10 x 10	0.100	25.00
20 x 10	0.200	12.50
20 x 20	0.400	6.20
40 x 20	0.800	3.10
50 x 25	1.250	2.00
50 x 50	2.500	1.00

RECPRIME PS100:

- 500 ml of **RECPRIME PS100** will be sufficient for a joint length of approximately 125 m.

JOINT SIZE SUITABILITY

Joint Width

- Minimum 6 mm.
- Maximum 50 mm (multiple application). However, for wider joints, trials should be conducted to assess nonsagging conditions at vertical side.

Joint Depth

- Minimum 10 mm on porous substrates (12 mm in floor joints).
- Minimum 6 mm on non porous substrates (12 mm in floor joints).
- Maximum 25 mm.

Gun Grade Width : Depth Ratio (within above min./max. restrictions)

- 2 : 1 butt joints.
- 1 : 1 lap/floor joints.

Pouring Grades Width : Depth Ratio (within above min./ max. restrictions)

- 1 : 1 floor joints up to 25 mm width joints up to 30 mm a joint depth of 25 mm.
- Pouring grade are only used when a joint width is of a minimum of 12 mm.

PACKAGING

REC FLEX PS 660 is available in 6kg, 20 kg and 30 kg packs.

STORAGE

REC FLEX PS 660 and **REC PRIME PS100** have a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C.

If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

HEALTH & SAFETY

- The curing agent of **REC FLEX PS 660** contains manganese dioxide and is therefore labelled 'Harmful' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994. The base is labelled 'Irritant' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.
- For further information refer to the Safety Data Sheet.

FIRE

- **REC PRIME PS100** is flammable.
- Ensure adequate ventilation when using. Do not use near naked flame and do not smoke during use.

FLASH POINT:

- **RECPRIME PS100** : 37°C.

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