

YASH POLYSEAL



Yash Polyseal

High performance Two-part polysulphide civil sealant

Description

YASH Polyseal is a two-part poly sulphide sealant which when the components are mixed together, cures to form a flexible rubber seal. It has good adhesion to concrete, stone, metals and many other common building substrates.

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 & Tile joints.
- + Structural Floor Joints.

Advantages

- + 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.
- + WRAS approved product. Listing number 9609512.
- + BS6920 : 1996.
- + ASTM C920-87, Type M, Class 25.

Pouring Grade:

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

Method of 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.

TECHNICAL PROPERTIES:

Colour	Grey
Solids	100%, passes the lead requirements for the VOC content
Typical shore A hardness: ASTM D2240	20 ± 5 for Gun Grade
Working life:	1:30 - 3:30 hrs. @ 20°C 40 - 60 mins. @ 35°C
Application temperature:	5 - 50°C
Setting time:	36 - 48 hrs. @ 15°C 15 - 20 hrs. @ 25°C 10 - 15 hrs. @ 35°C
Service temperature:	-40 - 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 gr/ ltr.
<i>*for water immersion, YASH SEALANT 665 should be fully cured.</i>	

YASH SEALANT 665



Priming

YASH SEALANT PRIMER is a universal primer suitable for use with porous and non-porous surfaces. Mix the two components of YASH SEALANT PRIMER until a homogeneous liquid is achieved.

Using small brush apply one thin coat at the joint sides and avoid over priming. Allow the primer to become tacky and then apply the mixed YASH SEALANT 665 sealant.

After 6 hours @ 20°C, or 3 hours @ 35°C the surface must be re-primed before applying YASH SEALANT 665 sealant.

Mixing

Gun grade

The base and curing agent ratio controls the adhesion, strength and durability of YASH Polyseal. 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. Make sure to scrub sides and bottom of the tin and mix again for extra 2 minutes.

Pouring grade

YASH Polyseal 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 centre 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 joints 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 tooled to a smooth finish. A small amount of surface lubricant such as dilute detergent solution may be used to help achieving the right finish. Any masking tape should be removed immediately after tooling while the sealant still at the working life.

Chemical Resistant

Resistant to most alkalis and dilute acids; petrol, diesel or jet fuel and many solvents and vegetable oils.

Packaging

YASH Polyseal is available as follows:

Gun Grade	
YASH SEALANT 665	2.5 liters packs (includes base and curing agent)
Pouring Grade	
YASH SEALANT 665	2.5 Ltr packs (includes base and curing agent). The curing agent is packaged separately within the can
Primers	
YASH SEALANT PRIMER	500 ml tin

Yield

YASH Polyseal approximately 125 meters/ tin.

YASH SEALANT 665



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

Joint Size Suitability

Joint Width

Minimum 6 mm.

Maximum 50 mm (multiple application). However, for wider joints, trials should be conducted to assess non sagging 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 Grade 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.

Storage

YASH Polyseal and YASH SEALANT PRIMER have a shelf life of 12 months from date of manufacture if stored at temperatures between 2 - 35°C.

Cautions

Health and Safety

The curing agent of YASH Polyseal contains manganese dioxide and is therefore labeled 'Harmful' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994. The base is labeled 'Irritant' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.

Fire

YASH SEALANT PRIMER is flammable. Ensure adequate ventilation when using. Do not use near naked flame and do not smoke during use.

Flash point: YASH SEALANT PRIMER is 37°C.

More from YASH CONCHEM Products

A wide range of construction chemical products are manufactured by YASH which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening

Note : We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, Yash cannot accept any liability either directly or indirectly arising from the use of Yash products, whether or not in accordance with any advice, specification, recommendation or information given by us.