

PG-10

2 COMPONENT GUN AND POURING GRADE POLYSULFIDE SEALANT

DESCRIPTION

PG-10 is a two parts, High performance, poly sulfide sealant, which effectively seals joints that are subject to structural or thermal movements as well as non-moving joints. Against infiltration of water and dirt . Available in no sag and pouring grades for use in vertical or horizontal joints.

USES

- Sealing of expansion and contraction joints in most structures, interior and exterior .
- Sealing of glazed units, curtain walling systems and similar structures where thermal movement can be high and large variations in wind pressure are possible.
- In difficult situations such as sewage farms, reservoirs, swimming pools, where non biodegradation of sealant is very important.
- Bridge decks and associated abutments

ADVANTAGES

- Highly elastomeric-easily accommodates continuous and pronounced cyclic movements.
- Very good chemical and temperature resistance.
- Exhibits excellent adhesion to most primed building surfaces including concrete, glass, aluminum and stainless steel.
- High resistance to aging influences, physical damages and climate extremes.
- Very good resistance to fuel, dilute acids and dilute alkalis.

STANDARDS

Complies with requirement of
B.S 4254:1983
ASTM C-920-C-87 Type M class 25, Federal specs
TT-S-00227 E Type II Class A.

PROPERTIES

Form Multi part paste compound
Colors : Grey and white special color on order
Movement accommodation \pm 25 %
Pot life : 2 hrs

Cure time @ 25⁰ C : 1 week

Tack free time : 36 hrs

Application temperature : 5⁰ C to 50⁰ C.

Water immersion PG-10 must be fully cured before permanent immersion in water

Chemical resistance to occasional spillage

Dilute acids	Resistant
Dilute alkalis	Resistant
Petrol	Resistant
Aviation Fuels	Resistant
Diesel fuel	Resistant
Kerosene	Resistant
Lubricating oils	Resistant
Skydrol	Resistant
Chlorinated solvents	Not Resistant
Aromatic solvents	Not Resistant

INSTALLATION

Joint design

Suitable for all properly designed joints. Joint width must be a minimum of 4 times the anticipated movements.

Surface Preparation

All joints must be absolutely clean. For concrete, sandblasting is recommended. All curing compounds, old caulks, grease, waterproofing compounds must be removed For non porous surfaces such as glass, metal etc cleaning with solvent Cap thinner-101 is recommended. Polyethylene rod or polyurethane foam is recommended as a joint filler and back up material To maintain the recommended sealant depth, install backer-rod by compressing and rolling it into joint channel without stretching it length wise

Priming

Primer **PG 15 E** is recommended for concrete, bricks, plaster, and stone and on unglazed edges of ceramic tiles. Mix part A and B for 3 minutes . Apply thin coat using a clean dry brush ensuring complete coverage , avoid over priming . The mixed PG-10 should be applied when the primer is tacky

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.For Glass ceramic and aluminum, PG primer 10 to be applied. For ferrous substrates, apply a suitable anti corrosive primer.

Mixing

For gun grade the base component and accelerator are supplied ready for mixing in single tin .Mix thoroughly using a slow speed (300-500 rpm) powerful drill with a mixing spiral. Move the mixer up and down and scrape the sides and the bottom till a uniform consistency and color are achieved. Avoid whipping air into the material. Excessive mixing will generate heat which will reduce the pot life.

Pouring grade is supplied in two separate containers .The small container contents should be transferred to the other tin and mixed as per gun grade instructions.

Application

Apply by caulking gun, hand or pressure type or pour from container. Bulk sealant can be applied by pumping equipment Trowel or putty Knife, press firmly into joint to assure good contact.

Finishing

PG-10 should be tooled to a smooth finish ,a minimum of surface lubricant such as dilute detergent solutions may be used to assist the process for the neat finish , a masking tape is recommended before Priming .Remove the tape immediately after tooling .

Cleaning

Clean tools, equipment and any spillage immediately after use with appropriate solvent.

Estimation Guide to quantities

Joint size In mm	liters per meter Run	meter run per US gallon
10x10	0.1	37.8
20x10	0.2	18.9
20x15	0.3	12.6
20x20	0.4	9.4
40x20	0.8	4.7
40x25	1.00	3.7
40x30	1.2	3.1
40x40	1.6	2.3
50x25	1.25	3.0
50x30	1.5	2.5
50x40	2.0	1.8
50x50	2.5	1.5

1 liter of **Primer PG 15 E** to 30 liters of **PG-10**.

1 liter of **Primer PG-10** to 100 liters of **PG-10**

These are theoretical yields, no allowances has been made for variation in joint width or wastage

Limitations

Over painting of polysulfide sealant in general is not possible as paints are not sufficiently elastic, if necessary trials should be conducted to confirm compatibility.

Not recommended for applications to use with high chlorinated water.

Storage

Store between 5⁰ C to 25⁰ C .

Shelf life

12 months in original sealed containers.

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TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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