

K2 POLYSEAL 21G

Gun Grade Two Part Polysulphide Sealant

Description:

K2 POLYSEAL 21G is a two-part joint gun grade sealant based on liquid polysulphide polymer. It contains a base component (Part A) and accelerator (Part- B) in the correct proportion which, when mixed together cure to form a fairly stiff rubber-like material. When cured, the sealant exhibits excellent adhesion to most surfaces including concrete, glass, aluminum and stainless steel. It is to be used for the highest performance in sealing expansion joints where large movements is anticipated in concrete construction and for joints between diversified construction materials. K2 POLYSEAL 21G has superior joint movement accommodation with strong adhesion to most building materials.

Area of Application:

K2 POLYSEAL 21G is used either in internal and

external expansion or contraction joints and could be of vertical, slanting or horizontal nature.

Benefits:

- Excellent weathering characteristics with resistance to rain, snow, heat & ultraviolet light.
- Quick curing with low shrinkage.
- Accommodates continuous and pronounced cyclic movement.
- Excellent adhesion to most common substrates.
- High resistance to ageing influences, physical damage and climatic extremes.
- Resistance to petrol, diesel, jet fuel and most other common solvents & also unaffected by mild acids and alkalis.

Technical Properties:

Properties	Results
Nature	Two Components (Base and Accelerator)
Appearance: Base-(Part-A)	Thick, white paste.
Appearance: Accelerator(Part-B)	Thick, Dark brown paste
Mixing Ratio	Base: Accelerator- 92:8 part (weight by weight)
Density of Mix Compound	1.6g/cc
Application Temperature	10 °C to 40 °C
Pot Life	2 hours
Setting time	10 to 12 hours Initial setting & 7 days full cure @ 30°C

Standard:

K2 POLYSEAL 21G is a gun grade two part polysulphide sealant conforming to BS 4254 : 1967 & BS 5212 : 1990,DIW 18540, ASTM C-920-87.

to cyclic movements should be designed for an optimum width/depth ratio of 2:1. Minimum joint depths are 5 mm for metals, glass and other non-porous surface. 10 mm for all porous surfaces like brick and concrete. 20 mm for trafficked joints and those subject to hydraulic pressures.

Joint size:

K2 POLYSEAL 21G may be applied to joints between 5 to 50mm wide. Joint for subjected

Application Instruction:

SURFACE PREPARATION

- Prior to the application of the K2 POLYSEAL 21G, all joint surfaces should be thoroughly cleaned and dried and primed with K2 Hisel Primer 2k.
- Loose particles, dirt, dust, protective lacquer, oil and grease should be removed by vigorous brushing with a wire brush and by means of suitable cleaners e.g. KEROSENE.
- After the primer is applied, it has to be relatively tacky before sealant is applied.
- Deep joints should be backfilled with a non-retting backup material to which the sealant does not adhere e.g. closed cell polyurethane foam, which should be tampered into the joint to the required depth.

MIXING PROCESS

- K2 POLYSEAL 21G sealant is supplied in a pack with base (part-A) and accelerator (curing agent-part-B). Empty part-B into part-A completely and mix.
- In order to mix both the compounds thoroughly, it is preferable to use a slow speed electric mixer with suitable blades or paddles with a speed less than 300 RPM.
- Ensure thorough mixing till a uniform color is obtained.
- Failure of the sealant will often occur if it is not completely and thoroughly mixed.

TOOLING & FINISHING

To obtain a smooth surface, the sealant has to be tooled by drawing a flat tool, like a stainless steel spatula, over its surface. After sealing, the tools and equipment's must be cleaned with KEROSENE.

Precaution:

- The width should not exceed more than 50mm.
- The product should not be exposed to high temperatures. Avoid application below 100C temperatures.
- Traces of bitumen, loose or dust particles should not be there while an application.
- Adhesion of the product must only on two opposite faces of the substrate.

Packing:

- K2 POLYSEAL 21G is available in 4 kg Pack.
- Pack Contains - Part A – Base (3.680kg) & Part B – Hardener (0.320kg).

Shelf Life and Storage:

K2 POLYSEAL 21G has a shelf life of 12 months in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.

Health & safety:

K2 POLYSEAL 21G (curing agent-part –B) contains a heavy metal oxide, contact with the skin should be avoided. Hands should always be washed thoroughly before eating or smoking.

FIRE

K2 POLYSEAL 21G is highly inflammable and it must be stored away from heat.

Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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