

ADCOSEAL 422

Two-component polysulphide
sealer

ADCO
Construction-
and Mining
Chemicals

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established 1994

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technical data sheet

DESCRIPTION

ADCOseal 422 is a two-component sealing compound based on polysulphide polymers blended with fillers and chemical curing agents, which react after mixing to form a durable rubber-like seal. The product is supplied as a high viscosity gun grade (H) or in a low viscosity pourable consistency (L).

ADCOseal 422 is highly elastic and able to withstand continuous extension and recovery. It exhibits superior resistance to many common chemicals, fuel, oils and solvents; resistance to deterioration by exposure to ultra violet light and ozone make it suitable for interior as well as exterior use. The product is extensively specified in applications of fuel and oils exposure. The standard colour of ADCOseal 422 is grey.

Standard ADCOseal 422 is manufactured to yield a hardness of ± 25 Shore A. For special applications requiring different hardness properties, please consult our Technical Division for the manufacture of such product.

ADCOseal 422 complies with the requirements of SABS 110.

GUIDELINES TO APPLICATION

ADCOseal 422 is applied to both horizontal and vertical movement joints and joints subject to continuous cyclic movement to form a water and weatherproof seal.

Minimum joint dimensions are 6 mm wide by 6 mm deep. In general, a width to depth ratio of 2:1 should be maintained (where the depth exceeds the width, the sealant is placed under compression and unable to function properly). Joint faces should be parallel and the joint width should be at least 4 times the maximum anticipated movement. When installing the sealant, the joint opening should be central to its maximum compression / expansion cycle.

SURFACE PREPARATION

The correct preparation of joint faces is essential to the resulting performance of the sealing system. All surfaces should be dry and sound, laitance or surface contamination should be removed by wire brushing or grinding. Vacuum or compressed air is used to remove any dust. Metal surface shall be free of mill scale and rust, mild steel to be treated with a suitable anticorrosive primer.

For unrestricted movement characteristics of the joint sealant, a bond breaker must be installed at the base of the joint. Where a backing material such as polyethylene is used to ensure the correct joint geometry, the bond breaking tape is not required.

PRIMING

The preferred priming compound onto dry substrates is ADCOprime 261, a high solids twin-pack epoxy material, suitable for application in severe conditions as well as on porous or friable surfaces. Where damp (not wet) conditions are experienced, ADCOprime 265 is used.

For both epoxy priming systems (261 and 265), allow 30 – 45 minutes after application before installation of the sealant.

Should the priming system has lost tack or be on the surface for longer than 2 hours without sealer, re-prime the bonding surfaces before sealing. When installing ADCOseal 422 system onto glass, ceramics and sound masonry surfaces not subject to water immersion or prolonged humid conditions, ADCOprime 264, silane-based product can be used. Protect the primed surfaces from dust and dirt that could interfere with the adhesion of the sealant.

MIXING and APPLICATION

A 2-litre kit of ADCOseal 422 is supplied, where the activator is packaged in a plastic bag resting on top of the base, separated by a plastic sheet. Remove the plastic sheet, transfer the total quantity of activator onto the base and mix thoroughly (5 – 8 minutes) preferably using a slow speed drill fitted with a flat blade stirrer to achieve a uniform grey colour, free from streaks.

Fill the sealant into a closed barrel applicator gun (ADCO Applicator 495 LB) using a follower plate (ADCO Follower Plate 496) or a small trowel. Point the sealant into the joint, taped on either side with masking tape, by a continuous squeezing of the trigger ensuring a smooth continuous flow of material. Fill the joint from the bottom (top of backing cord or joint forming material) up with the required contact to primed joint surfaces. The exposed surface of the sealant is tooled using a rounded spatula – a soapy solution can be helpful. Remember to remove the masking tape from the joint edges before sealant cures.

Clean all tools and equipment using ADCOchem 291.

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PROPERTIES

Mixing Ratio	use as supplied, do not split kits
Density	1.5 g / cm ³
Pot Life	±45 minutes @ 25°C
Curing	2 days tack free, 7 days full cure
Shelf Life	8 months
Hardness	±25 Shore A
Standard Colour	grey
Application Temperature	+5°C to +35°C
Service Temperature	-25°C to +90°C
Movement Accommodation	30%
Pack Size	2 litre

SAFETY

Contact with the skin should be avoided by wearing gloves and protective clothing. The activator component is caustic – in case of eye contact wash well with water and obtain medical advice.

Remember: Keep away from children, handle responsibly and consider the environment.

UPDATE

May 2017.

This supercedes all previous documentation.

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