Product Data Sheet

ANCHORSEAL 963 GG

Multicomponent Gun Grade Polysulphide Sealant

Description:

ANCHORSEAL 963 GG is a two-part Polysulphide Sealant which cures once the two components are mixed to give a flexible rubber seal. It has good adhesion to concrete and many other common building substrates.

STANDARDS

ANCHORSEAL 963 GG complies with the requirements of:

Federal Specification TT-S-227

USASI A-116.11967- class A and B

BS EN ISO 11600:2003 + A1:2011 (formerly BS 4254),
BS 5212: part 1, BS 6920 test on suitability with potable water,
ASTM C 920 [Type M, Grade NS, Class 25, USE T]

AREAS OF APPLICATION

- Structural floor joints, bridges, bridge abutments,
- Concrete Pavements
- Tunnels, Parapet wall joints, concrete and brick foundations,
- Retaining walls Reservoirs, water treatment works, sea walls.
- Secondary containment areas
- Terraces, decks, and Balconies
- Floor joints subject to heavy usage and traffic
- Industrial areas and those subject to chemical spillage

KEY PERFORMANCEPROPERTIES

- Forms a tough, flexible, elastomeric, weatherproof, and watertight. seal
- Excellent resistance to deterioration due to weathering,
- Ozone, U.V. light and high climatic and in-use temperatures
- Excellent chemical resistance
- Durable water and weatherproof sealing even in joints with
- high levels of deformation (M.A.F. ±25%) or repeated cyclic
- movement of compression and extension over a wide
- temperature range
- Storage stability of base and curing agent ensures. excellent shelf life
- Excellent adhesion to concrete, brickwork, metal, tiling,
- masonry, stone, steel and glass (check need for primer)
- Lead free curing compounds ensure that the product is safe.
- for handling and application
- Gun grade has a unique, single container packaging.
- Eliminating mistakes in mix ratios, minimizing packaging
- Waste and providing convenience to user.

METHOD OF APPLICATION

Joint preparation

To ensure optimum adhesion the joint faces must be sound, clean dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

Priming

When installed on porous surfaces (e.g. concrete and masonry), or if joints are permanently immersed, **ANCHOR PRIME P1** primer must always be used.

When applied on non-porous substrates (e.g. metal, glass and glazed surfaces), consult with Technical Department for primer recommendations

Application of primer should not be carried out below 4°C.

A single coat of primer should be applied by brush in accordance with the primer instructions. The primer must be allowed to dry to a tack free state before applying **ANCHORSEAL 963 GG,** and should be applied within 3 hours of primer, otherwise re-priming will be necessary.

Do not prime or puncture the backer rod as this may cause bubbling in the sealant.

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Product Data Sheet

Joint depth:
For non-immersed expansion joints, subject to cyclic movement, and greater than 20mm wide, it is important that the depth should not exceed half the width to optimize the elastomeric properties of the joint sealant, When using filler boards in expansion joints to achieve the correct depth, it is essential to use a backer rod or insert a bond breaking tape into the joint in order to prevent 3-point adhesion.

Mixing Gun Grade
Mix and use one complete unit at a time. **ANCHORSEAL 963 GG** is supplied as base / hardener combined unit. Pour the hardener (Component B) into the base (Component A) pail and mix thoroughly with a slow speed drill (300-500 rpm) rpm fitted with a flat bladed paddle for 8-10 minutes till a uniform color and consistency is achieved. Scrape down the sides as much as possible using a pallet knife and avoid lifting the mixing paddle out of material to minimize entrapment of air.

Applications:
ANCHORSEAL 963 GG is formulated to be applied using a sealant gun but may be applied by trowel if required. Sealant guns are fitted with conical nozzles which can be cut to suit the joint width. The sealant should be gunned into the joint using an even trigger pressure, cleaning the nozzle occasionally to avoid contamination. Deep joints should be filled in two or more runs, to prevent air entrapment. When applying the sealant to a vertical joint, start application at the bottom of the joint so as to continuously support the sealant.

Finishing
In order to displace any air bubbles present in the sealant caused by mixing and also as an aid to good adhesion, it is advisable, immediately after the **ANCHORSEAL 963 GG** has been installed, to finish by tooling with a rounded spatula or similar object. The outermost surface of the sealant should be finished with a slightly concave profile. On no account must moistened fingers be used. Protect the finished seal from inclement weather until initial set has taken place and the surface skin is clearly visible.

PACKAGING / SUPPLYING

ANCHORSEAL 963 GG is available in 2.5 liter Tin Pack

ANCHORP RIME P1 1 is available in 1 Liter Tin

ANCHOR CLRAENER 1 is available in 5 Liter

COVERAGE RATE

The approximate linear meter sealant consumption per liter can be estimated from the following formula:

$$\frac{W \times D}{1000}$$

= Sealant Consumption per linear meter per liter.
Where: W = Joint Width (mm), D = Joint Depth (mm)

Joint Size in mm	Liters/meter Run	2.5 Liter /Pack meter run
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 15	0.300	8.33
20 x 20	0.400	6.25
40 x 20	0.800	3.12
40 x 25	1.000	2.50
40 x 30	1.200	2.00
40 x 40	1.600	1.56
50 x 25	1.250	2.00
50 x 30	1.500	1.67
50 x 40	2.000	1.25
50 x 50	2.500	1.00

Use 1 liter of Anchor Prime P1 for 30 liters of Anchorseal 963 GG

CLEAN UP

Clean equipment immediately with **ANCHOR CLEANER 1** after usage.

QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY** LLC Sharjah, UAE. facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, and ISO 14001.

HEALTH & SAFETY

Protective clothing such as gloves and goggles should be worn while applying **ANCHORSEAL 963 GG**. In case the material splashes to the skin or eyes wash the same with fresh water immediately.
In critical cases seek medical assistance.

STORAGE & SHELF LIFE

ANCHORSEAL 963 GG Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (<25° C). The shelf life is up to 12 months in unopened conditions if stored as per guidelines.

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TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Grey	—
Viscosity	Thixotropic Paste	—
Tack free Time,	5 hours @ 25 ˚C	—
Initial Cure for light Traffic @ 25˚C	24 hours @ 25 ˚C, 5 hours @ 40 ˚C,	—
Final cure for chemical attack or water immersion	14 Days @ 25 ˚C, 7 Days @40 ˚C,	—
Application Temperature	+5 ˚C — +45 ˚C	—
Service Temperature	-20 ˚C — +80 ˚C	—
Reaction to Fire	Class A	ASTM E 84
Density, Kg/Liter	1.73 ± 0.05	ASTM D 1475
Solid Content	100 %	ASTM C 836/ ASTM C 898
UV Resistance	300 hours No deterioration/No	ASTM G 154 - 2023
Elongation at break	≥680 %	ASTM D 412
Chemicals & Fuel Resistance	Resistant to most dilute acids and	ASTM D 543 / ASTM D 1308
Crack & Chalking	No deterioration @ 70 ˚C	TT-S-0027E
Shore A Hardness	≥28	ASTM D 2240 – 15 (2021)
Potability	Passes	BS 6920
Movement Accommodation Factor	± 25% Butt Joint, ± 50% Lap Joint	BS 6093
Volatile Organic Compound (VOC)	≤ 10.5 g/L	USEPA
Tear Resistance	≥4.0 kN/m	ASTM D 624 – 00 (2020)
Tensile Strength	≥0.40 N/mm²	ASTM D 412 – 16 (2021)

Properties listed are based on laboratory controlled tests. All values are subject to tolerance of 5-10%.

Shipping Limitations: None

Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

Non – Warranty : Because the storage, handling and application of the material is beyond Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Anchor Allied Factory Ltd will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.

All **ANCHOR ALLIED FACTORY LLC** datasheets are updated on a regular basis. This technical data sheet supersedes all previous editions relevant to this product. It is the user's responsibility to obtain the recent version.

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MFG. OF SILICONE , ACRYLIC & POLYURETHANE SEALANTS, WATER PROOFING COATINGS, SELF - ADHESIVE TAPES, SPRAY PAINTS, CONTACT ADHESIVE, PVC CEMENTS, EPOXY STEEL