



Product Data Sheet

ANCHORSEAL 963 GG

Multicomponent Gun Grade Polysulphide Sealant

Description:

ANCHORSEAL 963 GG is a gun grade polysulphide sealant is a two-component, non-sag elastomeric joint sealant based on liquid polysulphide polymers. It is specifically formulated for application with a sealant gun, making it ideal for vertical and overhead joints. After curing, it forms a tough, flexible, and durable elastomeric seal with excellent adhesion to a wide range of construction substrates, including concrete, masonry, metal, glass, and natural stone. The cured sealant provides a long-lasting barrier against the ingress of water, dust, dirt, and other environmental contaminants while accommodating joint movement and maintaining joint integrity throughout its service life.



KEY PERFORMANCE PROPERTIES

- 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. $\pm 25\%$) 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.

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

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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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) 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.

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.

CLEAN UP

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

PACKAGING / SUPPLYING

ANCHORSEAL 963 GG is available in 2.5 liter Tin Pack

ANCHOR PRIME P1 is available in 1 Liter Tin

ANCHOR CLEANER 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

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, ISO 14001, ISO 45001 & ISO 50001

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.

CERTIFICATIONS





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TECHNICAL SPECIFICATION

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Color	Grey	—
Viscosity	Thixotropic Paste	—
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	—
Pot Life	120 min	—
Tack free Time,	72 hours @ 25 °C	ASTM C 679-15-2022
Rheological Properties	Vertical: Non-Sag, Horizontal: No Deformation	ASTM C 639-15 - 2022
Extrusion Rate	22 mL/min	ASTM C 1183, C1183M -13-24
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 significant Changes	ASTM G 154 - 2023
Elongation at break	≥ 680 %	ASTM D 412
Chemicals & Fuel Resistance	Resistant to most dilute acids and alkalis, petrol, diesel and many solvents and vegetable oils	ASTM D 543 / ASTM D 1308
Crack & Chalking	No deterioration @ 70 °C	TT-S-0027E
Shore A Hardness	≥ 27	ASTM C 661-15 -2022
Potability	Passes	BS 6920
Movement Accommodation Factor	± 25% Butt Joint, ± 50% Lap Joint	BS 6093, ASTM C 719-22
Volatile Organic Compound (VOC)	≤ 10.5 g/L	USEPA-24
Tear Resistance	≥ 4.0 kN/m	ASTM D 624 – 00 (2020)
Tensile Strength	≥ 0.40 N/mm ²	ASTM D 412 – 16 (2021)
Effect of heat ageing	1.85%	ASTM C 1246-17, 2022
Effect of accelerated Weathering	No crack after UV exposure and Bond Test	ASTM C 793-23& C1442-14-2021
Peel Adhesion	52.00 N	ASTM C 794 -18 - 2022
Peel Adhesion after UV Exposure	41.80 N, No Adhesion Bond Failure	ASTM C 794-18 & C1442-14-21
Stain and Color Change	No Stain or Color change Observed	ASTM C 510 -16 -2022

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

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department. Of ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

Disclaimer

The technical information, data, and recommendations provided by ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE are supplied in good faith based on current knowledge and experience and are intended for general guidance only. Product performance may vary due to factors beyond ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE's control, including materials, substrates, environmental conditions, and methods of application.

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Users are responsible for verifying the product's suitability for the intended application and for conducting appropriate testing under actual project conditions. Product specifications may be amended without prior notice. All sales are subject to ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE current Terms and Conditions of Sale and Delivery. Users must refer to the latest applicable Product Data Sheet prior to use.



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