



Anabond[®] Tuffseald 2G

Technical Data Sheet
Revised on May 2017
Revision no.: 02

PRODUCT DESCRIPTION

Technology	Poly sulphide
Chemical type	Moisture curing
Components	Two component – requires mixing
Cure	Room temperature vulcanizing (RTV)
Application	Sealing

Anabond Tuffseald 2G is a two component polysulphide sealant conforming to BS 4254 : 1983. It is used for sealing expansion joint sealant where large movement is anticipated in concrete construction and for joints between diverse construction materials like glass, aluminium, steel & glazing. It has been used in internal and external wall cladding / sealing of joints in water retaining structures such as reservoirs, dams, tanks etc. It is also used for sealing of expansion joints where there is vehicular traffic (e.g. airports and bridges) or pedestrian traffic.

After mixing Resin and Hardener, the polymerization is initiated at room temperature, which proceed further until it is cured.

It has superior joint movement accommodation with strong adhesion to most building material. It is chemically resistant to petrol, diesel fuel & kerosene.

Typical Properties of uncured material

Resin

Appearance	Smooth paste
Colour	Off- white
Specific gravity at 30°C, ATM* R004 (JIS* K6820)	1.60 – 1.75
Flash Point	Refer MSDS

Hardner

Appearance	Smooth Paste
Colour	Brown
Specific gravity at 30°C, ATM R004 (JIS K6820)	1.65 – 1.75
Flash Point	Refer MSDS

Mixed Property

Mixing ratio R:H (w/w)	92 : 08
Colour	Grey
Specific gravity at 30°C, ATM R004 (JIS K6820)	1.60 – 1.70
Flow , ATM R016	Non Sag
Solid content , 120°C, 1hour, % ATM R 010	≥ 98

Curing performance

Curing of liquid poly sulphide polymers to high molecular weight elastomers is normally accomplished by oxidizing the polymer's thiol (-SH) terminals to disulfide (-S-S-) bonds.

Unlike single part two part systems have ability to achieve deep section cure and high 'green strength' within few hours

Pot life at RT, 500g mix, minutes, ATM R007	90 - 180
Cure time at RT, 500g mix, minutes, ATM R364	120 - 300

The product will achieve its handling strength after 24 hours at room temperature however curing continues for at least 7 days before full properties are developed.

*ATM – Anabond Test Method, JIS – Japanese Industrial standard, ASTM – American Society for testing and materials, ISO – International Organization for Standardization



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Operating parameters

Application temperature	□C	5 to 45
In service temperature	□C	- 40 to 80

Typical properties of cured material

Cured for 7 days at 30 ± 2°C, 55±5% RH

Physical Properties

Durometer Hardness, ATM-R019 (ASTM D2240)	Shore A	14 - 22
Tensile strength, ATM R020(ASTM D882)	kg/cm ²	≥ 3.5
Elongation, ATM R020(ASTM D882)	%	≥ 450

General Information

The product may be applied to joint between 5 to 50 mm wide. Joints subjected to cyclic movements should be designed for an optimum width/Depth ratio of 2: 1 (W = 2D).

Minimum joint depths are:

For metals, glass and other non porous surfaces – 5mm

For all porous surfaces like brick and concrete – 10mm

For trafficked joints and those subject to hydraulic pressures – 20mm

Handling

Before handling, read product safety data sheets (MSDS) and container labels for safe use.

Directions for use

Gun Grade sealants are used either in internal and external expansion or contraction joints and could be of vertical, slanting or horizontal nature.

Method of application

Thoroughly stir well the resin before use, since a filler separation might have occurred during prolonged storage.

Add the total quantity of hardner into the resin and stir well for a few minutes with scrapping the sides and bottom of the container to produce homogeneous mixture. If required use mechanical stirrer for homogenous mixing of resin and hardner.

Apply the mixed material with squeeze bottle, caulking gun, or any other suitable applicator.

Prior to the application of the sealant all joint surfaces should be thoroughly cleaned and dried and primed with suitable primer.

Primer promotes strong adhesion of the sealant to the surface and is absolutely essential on most surfaces. Primer should be brushed on the sides of the joint.

In order to get maximum adhesion to various surface of construction, TUFFPRIME universal primer is essential.

Storage

The optimal storage condition is 20°C to 35°C. Storage below or more than the temperature specified, has impact on the product properties.

Material removed from containers may be contaminated during use. Do not refill the product to the container.

If additional information is required, please contact our local customer service representative.

Shelf life

When stored at above mentioned condition, in the original unopened containers, this product has a shelf life of 12 months from the date of manufacture.

Packing

Adhesive/sealant is available in:

Part 'A' (kg)	Part 'B' (g)
0.920	80
3.680	320

Conversions

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{kg/cm}^2 = 10.2 \times \text{N/mm}^2$$

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mm / 25.4 = inches
mPa·s = cP
MPa x 145 = psi
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.142 = oz·in

Disclaimer- Please read carefully

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It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof.

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