



Technical Datasheet

ALPHA DP2246

Revised Date: June 2011

Description

Alpha Polyurethane DP2246 is a fast curing one-part general purpose polyurethane compound ideal for sealing and adhering to a wide range of surfaces in most industries.

Applications

Alpha Polyurethane DP2246 is an elastomeric sealant which cures fully on exposure to atmospheric moisture to form a permanently elastic compound which accepts movements caused by expansion, contraction, shocks and vibrations. Being resistant to oil, sea water and extremes in heat and cold, the product is ideal for use in the transportation, marine, heating and ventilating, engineering and fabricating industries.

DP2246 is totally waterproof, non-toxic, non-corrosive and can be over painted.

- Bolted Lap Joints.
- Cover Plates.
- Boat Deck and Hull Caulking. (Not suitable for Teak Decks)
- Joint Sealing between Hulls and Superstructures.
- Sealing Duct Joints and Metal Seams.
- Adhesion to Lightweight Metal Panels.

Presentation

Alpha Polyurethane DP2246 is available in a 310ml Cartridge with a separate screw on nozzle.

Physical and Chemical Properties

Consistency	Thick Paste
Colour	Black, White & Grey
Specific Gravity	1.26
Shore A Hardness	40-45
Skin Formation	30±15 Minutes
Elongation @ Break	>600%
100% Modulus	0.6 N/mm ²
Tensile Strength	2.1 N/mm ²
Shear Strength	>1.5 N/mm ²
Gap Fill	2-10 mm
Application Temperature	5°C -35°C
Service Temperature	-30°C to 90°C
Slump Resistance	Excellent
Chemical Resistance	Resists oil, dilute acids and dilute alkalis and other chemicals normally encountered
Cure Time	>3mm/24 hours

Guide To Sealant Quantities

Joint Size (mm)	Metres per 0.31Lt Cartridge
4 x 6	5.4
10 x 6	4.3
10 x 10	3.1
15 x 10	2.1
15 x 15	1.4
20 x 10	1.6
20 x 15	1.0
30 x 15	0.7

These are theoretical figures. No allowance has been made for joint size variations or wastage.

ACTIVE & INACTIVE METAL TABLE

Super Active Very Fast Cure	Active Fast Cure	Inactive Slow Cure	Passive Primer Necessary
Brass, Copper, Magnesium	Iron, Steel, Nickel, Aluminium	Stainless Steel, Titanium, Zinc, Anodized Aluminium, Galvanised Steel	Ceramics, Glass, Plastics, Painted Finishes



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Method Of Application

1. All surfaces must be thoroughly clean, dry, sound and frost free. Remove all traces of foreign matter and loose material. Degrease metal and glass with TN1239. Degrease oily timber with T161.
2. For a particularly neat finish mask joints with tape, this should be removed immediately after sealing work is completed. In a butt joint, place a polyethylene bond breaker tape at the base of the joint.
3. Pierce membrane inside the base of the cartridge end thread, screw on nozzle, cut at 45° to required size, remove end cap and fit into a Skeleton or Air Pressure Gun.
4. Extrude sealant firmly into joint sides to ensure complete contact. Smooth finish, if necessary, with spatula wetted in white spirit.
5. Clean tools immediately after use with TN1239. Clean hands with a proprietary hand cleaner.

Conversions

- (°C x 1.8)+32 = °F
- N/mm x 5.71 = lb/in
- MPa x 145 = psi
- N/mm² x 145 = psi
- N x 0.225 = lb
- N·m x 8.851 = lb·in
- N·mm x 0.738 = lb·ft
- mPa·s = cP

Storage Precautions

Alpha Polyurethane DP2246 should be stored in a dry cool well ventilated area, out of direct sunlight. Optimum storage temperature 5-20°C. Stored correctly, this product has a 12 month shelf life from manufacture if kept in its original containers.

Health & Safety

See separate MSDS for this product.

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