

POLYSEAL AC

One Component Superior Quality Acrylic Sealant

POLYSEAL AC is a one component superior quality, high performance water based acrylic sealant. The sealant on curing forms a pliable flexible seal with minimal shrinkage. POLYSEAL AC is primarily intended for internal & external pointing applications. POLYSEAL AC can be used in both horizontal and vertical applications.

CHARACTERISTICS

- ▶ Excellent adhesion to most building substrates. Can be used without the use of primer in new substrates.
- ▶ Weather resistant.
- ▶ Fast drying.
- ▶ Odorless.
- ▶ Easy to apply, one component sealant. No mixing required.
- ▶ Greater flexibility and higher movement.
- ▶ Good compatibility with paints and emulsions. Can be over painted.
- ▶ Good resistance to water and water vapour.
- ▶ Non-staining.

FIELDS OF APPLICATION

- ▶ Joints and cracks on concrete, brickworks and masonry
- ▶ Acoustical sealing in internal walls, ceilings and floors to reduce sound transmission class of partition walls
- ▶ General purpose external and internal caulking
- ▶ Perimeter sealing around window and door frames.
- ▶ Curtain wall construction
- ▶ Sealing of composite and lightweight cladding panels
- ▶ Cracks where greater flexibility or movement is required

APPLICATION INSTRUCTIONS

Joint preparation

The joint edges must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean

and sound substrate. When applied on glazed surfaces like ceramic or terrazzo tiles or porcelain enamel joint surfaces, the glaze should be removed by abrading with sandpaper or wire brush.

Priming

Usually priming is not required, however on highly absorbent surfaces, dilute POLYSEAL AC with water (1:3 by vol.) and prime the joints with it. The primer shall be applied by a brush in a thin coat application and shall be allowed to become tack free prior to the application of the sealant. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the joint before the application of the primer or the sealant and shall be removed once the sealant installation is complete.

Back-Up Material

A bond breaking backing rod (POLYROD)* shall be inserted into all movement joints to avoid a three sided adhesion. The diameter of the backing rod shall be at least 20% larger but not greater than 33% of the joint width. A bond breaking tape may be applied to joints where the depth does not allow the application of the backing rod.

Application

POLYSEAL AC is available in a ready to use pail and a self contained cartridge which can be loaded onto a caulking gun. Start extruding the sealant firmly into the joint or apply with a spatula if using from the pail. On vertical joints, sealant extrusion shall start from the bottom of the joint and continued to the top. Once the sealant has been installed, tool it to obtain a smooth profile.

DO NOT USE SOAPY WATER SOLUTION. Any masking tape applied should be removed immediately after the sealant is installed.

Overcoating

Dispersion based paints can be applied after 24 hours of application of the sealant. Solvents based paints can be painted after 7 days of application of the sealant.

CLEANING

Remove all excess sealant with a scrapper. Any spillage can be cleaned using a damp cloth. Clean

all tools and equipments by clean potable water immediately after the tooling.

LIMITATIONS

POLYSEAL AC is not recommended for:

- ▶ Movement joints having a high degree of movement.
- ▶ Damp and contaminated surfaces.
- ▶ Heavily trafficked floor joints.

JOINT DESIGNS

The joint width to depth ratio should be maintained at 1:1 with the following restrictions:

Joint Width

- ▶ 10 mm (Minimum)
- ▶ 20 mm (Maximum)

Joint Depth

- ▶ 6 mm (Minimum)
- ▶ 10mm (Maximum)

MAINTENANCE

If the Sealant is damaged but the bond is intact, cut out the damaged area and recaulk. If the bond has been affected, remove the sealant completely. Clean and prepare the joint in accordance with instructions under "Joint Preparation" and recaulk

STANDARDS

POLYSEAL AC complies with the requirements of:

BS 5212: Part 1

ASTM C 920, Type S, Grade NS, Class 12½, USE NT

STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in un-opened conditions and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

DISPOSAL

Dispose as hazardous waste. It is recommended to use licensed waste disposal contractors and consult the local authority regarding the regulations.

HEALTH & SAFETY

As with all construction chemical products caution should be exercised. Refer the product MSDS for full details. Protective clothing such as impervious gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

TECHNICAL SPECIFICATION

PROPERTIES	VALUES
Color	White/Grey (Other colors upon request)
Density, [g/cc]	1.5±0.05
Viscosity	Thixotropic paste
Shrinkage, [%]	< 10
MAF, [%]	± 10
Shore A Hardness	15-20
Chemical resistance	Dilute acids and alkalis
Skinning time @25°C & 50% RH, [min]	30
Full cure @25°C & 50% RH, [d]	7
Application temp, [°C]	-5 to +40
Service temp, [°C]	-10 to +70

All values given are subject to 5-10% tolerance

SUPPLY

POLYSEAL AC	25 kg pail
Ancillaries & Equipments	POLYROD

* Refer to website for TDS

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

Manufactured in G.C.C.

Henkel Polybit Industries Ltd.

P.O. Box 48539, Sharjah, United Arab Emirates

Sales Tel: +971 6 572 2282, Fax: +971 6 572 2289

Factory Tel: +971 6 767 0777, Fax: +971 6 767 1669

Henkel Polybit Industries Ltd.(Branch)

P.O. Box 2230, Al Khobar 31952, K.S.A

Tel: +9663 8894110, Fax: +9663 8995313



Internet: www.henkelpolybit.com E-mail: polybit@henkelpolybit.com

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