

ADSEAL DWSP 1940 SERIES

Weatherseal hybrid adhesive sealant

DESCRIPTION

ADSEAL DWSP 1940 SERIES is a one part paintable, high modulus, all purpose sealant based on hybrid polymer. It exhibits outstanding adhesion and excellent storage stability. It can be used in industrial and construction applications.

ADSEAL DWSP 1940 SERIES cures at room temperature in the presence of moisture to form a permanently flexible product.

SPECIAL FEATURES

- Solvent free
- Isocyanate free
- Phthalate free
- Odorless
- No dibutyle tin compound
- Easy to apply from -17°C à 40°C (1°F to 104°F)
- Stable at temperature from -40°C à 100°C (-40°F to 212 °F)
- Fast curing
- Highly elastic after curing
- Non-corrosive
- Paintable (due to the wide variety of paint, always proceed with an adhesion test before the start of work)
- Excellent UV resistance and very good aging properties
- Suitable for adhesion to many different surfaces, even without primer
- Weatherable and highly resistant to media such as mineral oils, solvents, acids and alkalis

SPECIFICATION

- Meets ASTM C920, S, NS, Class 50 (excluding clear version 1941), Use NT, A, G, M, O
- Meets CAN/CGSB-19.13-M87

LIMITATIONS

- Not designed for permanent immersion joints
- Not designed for indoor applications
- Where the sealant is encapsulated and does not have access to ambient humidity
- In contact with strongly acidic or alkaline products
- Not designed for sealing horizontal traffic joints
- Not recommended for joint less than 1/4 " or 6 mm. (width and depth)
- When the ADSEAL DWSP 1940 series is painted, it is possible that the paint will crack if the sealant has a higher elasticity than the paint.

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PHYSICAL PROPERTIES

Uncured	
Appearance	Pasty
Color	Various (special colors on order)
Density (ASTM D1475)	1.22 g/ml
V.O.C. (INDR-040)	18.22 g/L
Extrusion rate (50psi/diameter 5mm)	50 – 200 g/minute
Tack free (INDR-008)	40 minutes at 23°C (73°F) 50% h.r.
Shelf life	24 months

Cured	
Hardness (shore A)	43
Elongation at break (ASTM D412)	890%
Tensile strength (ASTM D412)	346 psi
50% modulus (ASTM D412)	51 psi
100% modulus (ASDTM D412)	83 psi
Shear strength on wood (ASTM C961)	216 psi
Shear strength on aluminum (ASTM C961)	103 psi
Movement capability (ASTM C719)	± 50% (excluding clear version (1941))

APPLICATION

Construction

- Exterior
- Sealing joints between a wide variety of materials, such as wood, glass, metals, certain plastics or mineral based substrates
- Doors, windows and siding (perimeter joints)
- Expansion joints

Industrial

- HVAC cabinet
- Transport vehicle
- Refrigerated counter
- Cold room
- Clean room

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SURFACE PREPARATION

Surface must be free of dust, oil, grease, frost or any other contaminant. On porous surface, first use mechanical tool such as grinder to remove old sealant or any other contaminant. Use ADSEAL CLEANER 6003 to clean all surfaces. Let it evaporate 20 minutes before sealant application. Ensure that the backer rod ADSEAL BACKER ROD is friction fitted properly and ADSEAL PRIMER MK60095 have been applied if necessary. When using ADSEAL PRIMER MK60095 let evaporate for 20 minutes prior to ADSEAL DWSP 1940 SERIES application.

METHOD OF USE

ADSEAL DWSP 1940 SERIES is easy to apply with conventional manual, pneumatic or electric caulking equipment. Shape the sealant bead with the ADSEAL TOOLING KIT before skin formation. In order to facilitate the work, the shaping can be done with a solution of 5% clear dish soap and 95% water. Dip the ADSEAL TOOLING KIT into the solution. Avoid applying solution directly to the sealant. The use of this solution may reduce sealant adhesion if used in an abusive manner. Uncured sealant can be clean with a solvent such as mineral spirit. Bead surface contact should be at least 1/4".

TEMPERATURE APPLICATION

Sealants from the ADSEAL product line can be applied throughout the year, even in winter, unlike organic sealants such as polyurethanes, thermoplastics or any solvent-based adhesives or sealants. Never apply sealant in weather conditions where condensation or precipitation exists such as rainfall, freezing rain, snow or intense fog. Make sure the surface is free of frost. The temperature of the sealant must be the same as the substrates. Avoid applying a warm sealant to a cold surface. The lower the temperature, the longer the sealant will take to vulcanize.

***** Beware of large fluctuations in temperature especially below freezing point. For example, when temperatures reach well below freezing point in a short period of time, the substrates may have a large elongation/compression movement. The sealant will not have enough time to form a fairly thick skin, which in some cases, may cause a breakage or wrinkling at the joint. If such phenomenon occurs, proceed with an adhesion test.**

PACKAGING

- 304 ml cartridge
- 600 ml sausage
- Pail
- Drum

STORAGE

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Store in closed original packaging stored in dry premises at a temperature lower than 25°C (77°F). Expiration date is indicated on each container. Storage beyond the date specified on the container does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality insurance reasons. Contact our technical service.

CAUTION

Always consult Safety Data Sheet (SDS) before using the adhesive. Apply usual hygienic rules. Always test the product on your application before use. For industrial use only. For more information, please contact your technical representative.

IMPORTANT**READ CAREFULLY**

The information and recommendations contained herein are derived from our research and information from other reliable sources. This data applies only to our products and not when used with other products. We believe in the reliability of our information. However, no guarantee is offered to that effect. It is the responsibility of the buyer to verify this data according to their own operating conditions to ensure that they conform to the purpose for which the product is intended, even before using it.

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