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Call for a Quote



Solutions that stick

Q-17 Instalam™ Laminating Adhesive

Q-17 Instalam™ Test Data

Color

Amber, Clear, White

Odor

Slightly resinous

Specific Gravity

ASTM D71-72-.84
Lbs/gal - 7.8(.91)

Solids Content

1 hour@ 350°-99.83%

Viscosity: Ares 350°F

87 rpm - 36,000 cps
100 rpm - 28,000 cps
500 rpm - 11,000 cps

Peel Strength

12.5pli min in of width. ASTM C-794
Aluminum, 21 days @77°F -82,
14 days@180°F -85
Vinyl, 21 days@77°F -80
14 days@180°F -79
Glass, 21 days@77°F -90
14 days@180°F -80

Thermal Conductivity

Q-17 - .755
Wood - .3 to 3.0
Neat Rubber - .9 to 1.6

Vehicle Bleed

AAMA 800-92, 2.8 1.1 - none.
ASTM D-2203 - none.

Toxicity: none

Melt Point

ASTM E-28, 270°F + 10°F

Excellent Resistance to: water,
water vapor, mild acids and bases,
detergent

Storage Life: indefinite

Paintability: Compatible with most
lacquers, enamels and alkyds.

Does not craze under critical stress
on acrylates and polycarbonates.

Product Details:

Purpose:

This is a user-friendly replacement product for traditional drop-in glazing compounds. This product can be applied manually or robotically. It is environmentally safe and can be put into service immediately after application. Instalam has been tested and certified by AAMA. This product's design is such that units can be assembled, tested, shipped and, in some cases, put into service within hours of its manufacture.

Composition:

This patented compound is a lightly crosslinked rubber and totally saturated proprietary block

co-polymer. The plasticizer and adhesion promoters are totally saturated and thus not affected over time by heat, UV or oxygen. All materials used in the compound are impervious to water.

Application:

This compound is intended for use in a factory environment with hot melt units. Instalam should be applied in a manner to maximize contact area. Q'SO can give recommendations concerning equipment and processing temperatures, as well as a yield chart.



Q'SO manufactures a wide range of sealants and adhesives in their facilities.

Freight Classification: "NOIBN" Class 55, Item# 149610. HMIS Rating: Health-0, Flammability -0, Reactivity-0.

Clean Up:

Tools and equipment can easily be cleaned with mineral spirits.

Packaging:

This material is generally packaged in 55-gallon fiber drums. It can also be supplied in 5-gallon fiber pails and 5 pound slugs.

About Q'SO Incorporated

When Q'SO was established back in 1980, our founders had already amassed more than 20 years of chemical engineering and product development experience with gaskets, sealants and adhesives. In the 20 years since, Q'SO has evolved into a premier engineering driven solution provider with a fully equipped, fully staffed, state-of-the-art research facility. Q'SO now offers a complete line of standard off-the-shelf gaskets, sealants and

adhesives, as well as custom-formulated specialty solutions for virtually any industry or application. No matter what your needs, Q'SO has a solution for you. At Q'SO, problem solving goes beyond formulating new gaskets, sealants and adhesives. We operate under a principle of high-level partnering; a methodology which enables us to dig deeper into our customer's challenges

and devise solutions that go beyond the direct application of our products. Whatever your industry, whatever your needs, Q'SO can engineer a solution for you. Every Q'SO customer benefits from the engineering efforts Q'SO has already invested. Many of our specialty formulations have become part of our standard product set, so they're ready to use for virtually any application.



Q-17 Instalam™ Laminating Adhesive

This product represents a new concept in window bedding/glazing compounds and is ideally suited for automation. It can be formed at the point of application using the same skill levels as those of hand operators. However, extra care must be taken to ensure that excess build up in the corners does not occur. High build up in the corners will hold the glass off the frame. Only prime materials of the highest quality are used in this product. This permits it to retain its structural integrity throughout a severe range of wind and weather conditions.

Another advantage is the easy way in which it permits a sash to be deglazed when a problem develops. If a glass is broken or becomes foggy, it can be removed easily by using a standard heat gun. After the glass and the sash have cooled the product can be removed from the sash by slowly pulling it away from the bedding surface at a 170° peel angle or it can be left on the glazing leg when the glass is replaced.

Patents: US: 4,677,133-4,764,535. Canada: B-19774CIP/CN

Traditionally used bedding/glazing compounds have some negative characteristics that Q-17 will overcome. These include:

Solvent Based Compounds

- Low solids content results in higher costs due to loss through evaporation (in some cases 40%).
- Contains flammable, contaminating and, in some cases, hazardous ingredients.
- Long cure time results in excess material squeeze out and delay in shipping product.
- Fast skin time results in poor adhesion, or no adhesion, to glass when the bedding is exposed for extended periods.
- Container difficult to dispose of due to solvent content and residual compound.
- Solvent deleterious to I.G. unit.
- Solvent deleterious to most vinyl surfaces.
- Excessive shrinkage causing cracking of the compound.

Waterborne Compounds

- Low solids content results in higher costs due to loss through evaporation.
- Storage, shipping, and handling problems in freezing temperature.
- Long cure time results in excess material squeeze and delay in shipping product. (If glass beads are added to decrease squeeze out the cure cycle is longer.)

Silicone Based Compounds

- Long cure time (up to 30 hrs) results in excess squeeze out and delay in shipping product.
- Difficult or impossible to clean glass when squeeze out occurs.
- Requires totally clean surface for good bonding and has spotty adhesion on styrene surface.
- Difficult to glaze and re-glaze.
- Cure time varies with weather conditions.
- If two-component variety is used the system is complicated and the constant flushing of gun & hoses increases scrap and cost.
- Requires use of small joint sealer at the joints.

Butyl Glazing Tapes

- Labor intensive.
- Higher relative cost due to manufacturing processes and more costly packaging.
- Administrative time and cost greater when several sizes of tape involved.
- Shipping and storing problems more severe due to the handling of cardboard cartons and rolls as opposed to drums, slugs and blocks of material.

Foam Tapes

- Low peel adhesion values.
- Labor intensive.
- Higher relative cost due to manufacturing process.
- Administrative costs greater when several sizes of tape inventoried.
- Shipping and storing problems more severe due to the handling of cardboard cartons and rolls as opposed to drums, slugs and blocks of material.
- Small layer of adhesive backing at the sight line is continuously exposed to UV.

In contrast to these traditionally used forms of window bedding/glazing compounds, Q-17 offers these advantages:

- 100% solids content with no volatile or contaminating ingredients.
- Packaged in fiber drums, pails or blocks with protective silicone release liner. These can be disposed of in flattened condition.
- Requires only 30 seconds to reach the solid state condition of tape.
- The window can be shipped immediately upon assembly.
- Thermal application eliminates adverse affect of temperature vacillations at the point of assembly.
- Consistency is such that the glass can be relocated to permit easy placement.
- The adhesive characteristics and the method of application require only for there to be a commercially clean surface at the point of assembly.
- Compatible with all known insulated glass sealing materials.
- Resists all window cleaners available to homeowners and RV owners.