DOWSIL™ 121 Structural Glazing Sealant Reglazing Procedure

Tech Talk

Follow the procedure below for reglazing units with DOWSIL™ 121 Structural Glazing Sealant where a DOWSIL™ structural adhesive was originally used for the project.

If this information is not available, contact your Dow Representative, who may need to determine whether DOWSIL™ products have been used on the project.

Reglazing Procedure

1. Perform a field adhesion test to confirm the adhesion of the existing silicone to the substrates. If poor adhesion is observed, contact your Dow Representative immediately.
2. Deglaze the area. Depending on the joint design, this may require specially designed tools or piano wire to cut behind the silicone.
3. Cut away the silicone, leaving a thin film (approximately 0.02-0.04 inches/0.5-1 mm thick) of adhesive on the frame. Do not damage the surface finish of the substrate.
4. Clean the residual sealant with solvent using the 'two-cloth' cleaning technique described previously. If fresh sealant will be applied immediately after cutting the cured sealant, then cleaning of the residual cured sealant may not be necessary.
5. DOWSIL™ 121 Structural Glazing Sealant will adhere to the fresh cut surface of the original cured sealant without primer.
6. The silicone may absorb some solvent. Allow this solvent to evaporate so that the existing cured sealant is completely dry before applying additional sealant.
7. If new or exposed framing material (such as anodized aluminum or PVDF coated metal) will be part of the newly installed structural joint, the surface should be cleaned and primed according to original test recommendations. In absence of testing recommendations, field adhesion testing may be needed to determine the appropriate use of primer.
8. Clean the new glass or panel and set in place. Install temporary fasteners. Mask the joint.
9. Fill the joint with a bead of DOWSIL™ 121 Structural Glazing Sealant and tool the sealant. Refer to the *Dow Americas Technical Manual* for more detail on this step.
10. After the sealant has fully cured, check that full adhesion has been achieved and then remove the temporary fasteners.

In some instances, the structural joint cannot be accessed once the glass has been set. In such instances, the sealant can be applied directly to the frame and the glass set in place, compressing the sealant in the joint and then tooled.

The joint must be filled in excess with sealant, and the glass must be set within 10 minutes or before the sealant begins to skin.

Under-filled structural joints are workmanship issues. It is the responsibility of the sealant applicator to ensure proper joint fill. Dow will review and comment on reglazing procedures.

DOWSIL™

silicones by DOW

Learn More

For more information regarding DOWSIL™ 121 Structural Glazing Sealant, or to see how any of our other high-performance silicone solutions can help meet your needs, visit **dow.com/buildingscience**.

Dow Building Science website:
dow.com/buildingscience

Contact Dow Building Science:
dow.com/customersupport

Visit us on X
@DowBScience

Visit us on LinkedIn
Dow Building Science

2000024823-142050

Form No. 63-6218-01-0625 S2D