

4160000 INSTALLATION OF POST-INSTALLED ANCHORS SYSTEMS AND DOWELS
FOR STRUCTURAL APPLICATIONS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comment: (Internal, 5-6-11)

416-2.1 Adhesive-Bonded Anchors and Dowels:

1. Is this intended to be restricted to epoxies only or are there other products that could do the job?

Response: Adhesive bonded anchors are not limited to epoxies. The term “epoxy” has been replaced with “adhesive” in 937-4.

2. 937 limits the adhesive types to 2 part only. Are there any 3 part adhesives that would work?

Response: Not to our knowledge. It is theoretically possible to have a multiple component system, but considering the automatic mixing requirements using a cartridge system this may not be practical. A dual component system is also consistent with AC308:

2.1.11 Cartridge system – Adhesive compound components for anchor applications packaged in a dual chamber cartridge for use with either manually- or power-driven dispensers. Metering and mixing of the components occurs automatically as the adhesive is dispensed through a manifold and mixing nozzle system.

No change made.

3. 937 says not to combine epoxies from bulk supplies, can other materials be combined from bulk supplies?

Response: No, bulk supplies are not permitted due to quality control problems with their installation. Historically, only epoxies have been proposed using bulk supply; however, this has been changed from exclusively “epoxy” to a generic term “adhesive” in 937-4.

416-2.1.1 Type HV Adhesives:

1. Since 937 doesn’t define HV, it needs to be defined here.

Response: HV is an accepted industry acronym for horizontal/vertical. No changes needed.

416-2.1.2 Type HSHV Adhesives:

1. Define HSHV.

Response: HSHV is an accepted industry acronym for high strength horizontal/vertical. No changes needed.

Karen Byram
414-4353

Comments: (5-23-11)

This version of 416 still contains HS and HSHV products but the new version of S937 eliminates these products from the QPL. This issue needs to be resolved, are we keeping HS and HSHV products or not?

Response: We are keeping the HS and HSHV products on the QPL. They are still included under the QPL provisions as a subset of "Post-Installed Anchors".

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Comments: (6-16-11)

In the explanation for the change, it says that undercut anchors are intended for overhead use in tension. The spec. is silent on this. Are we going to specify under cut for overhead tension applications? The undercut anchor is so different from the adhesive material that I think it deserves its own section. The adhesives seems to describe two part epoxy while the undercut anchor, as I understand it, is part and parcel of an anchor bolt system. I think it would be an easier read for the user if you separated the two anchor spec's into two subsections of the spec.

Response: The guidance for when and how to use the anchors is located in the SDG because it is a design issue. Therefore, the type of anchors to be used will be specified in the plans and there is no need for this guidance in the specification.

Because both Adhesive bonded anchors and undercut anchors fall under Post-Installed Anchors they are in the same Section (416 and 937) and separated within the specification section (subsection).

No changes made.
