



**Minnesota Department of Transportation**

**Office of Materials**

Mail Stop 645  
1400 Gervais Avenue  
Maplewood, MN 55109-2044

Tel: 651/366-5592  
Fax: 651/366-5461

March 04, 2009

(651) 366-5575

Mr. Patrick Buckley  
Powers Fasteners Inc.  
2 Powers Lane  
Brewster, NY 10509

Re: Mn/DOT Approval of Powers AC 100+ Gold

Dear Mr. Buckley:

The Minnesota Department of Transportation (Mn/DOT), Office of Materials and Road Research has reviewed the documentation you submitted for approval of Powers AC 100+ Gold epoxy. This product has been added to the "Mn/DOT Approved Concrete Anchorages" list. This approval is based on a minimum 5/8" diameter anchor with a minimum 5-5/8" embedment. This approval is also contingent upon satisfactory performance in the field.

Please note that it is the manufacturer's responsibility to immediately notify Mn/DOT if the chemical formulation of any product is changed or modified, or if the product is no longer being produced. If our testing determines that the chemical formulation has changed, without prior notification from the manufacturer, the product may be removed from the approved product list.

All of our approved products are located on the Mn/DOT Concrete web site at <http://www.dot.state.mn.us/products/index.html>

If you have any questions or comments, please contact me at the above address.

Sincerely,

A handwritten signature in black ink, appearing to read "R S M" followed by a long horizontal stroke.

Ronald S. Mulvaney, P.E.  
Structural Concrete Engineer

Cc: File

[Skip to Content](#)



[511 Travel Info](#)

- [General Contacts](#)
- [MnDOT A to Z](#)
- [Search](#)

## Approved/Qualified Products

- [Home](#)
- [Contacts](#)

### Concrete anchorages - reinforcing bar applications

Products listed in the following table are approved for use on MnDOT projects unless otherwise indicated. Products prohibited from use in sustained tension applications may be used for applications which are not considered to carry sustained tension loads. Adhesives permitted for use with sustained tension applications may be used for all applications (sustained or non-sustained tension). All bar types and hole types marked with "approved" below are approved for use under the conditions stated in the table. All anchorages must be field tested as required by the contract regardless of nominal pullout requirements. Refer to project specifications and plans to determine if the anchors are in sustained tension.

Permitted sustained tension applications are specified in [MnDOT Technical Memorandum 18-11-B-01 \(PDF\)](#).

Those who use any of these products are responsible to handle, store, use, and dispose of excess material in accordance with all manufacturer's and Safety Data Sheet (SDS) recommendations.

#### For use in sustained tension applications

| Product   | Manufacturer | Approval expiration | Rebar Designations                             | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-----------|--------------|---------------------|--|---------------------------|-------------------------|
| AC200+    | DEWALT       | 3/15/2024           | Approved for Rebar Designations #4 through #10 | Approved                  | Not approved            |
| Pure 50+  | DEWALT       | 5/12/2024           | Approved for Rebar Designations #4 through #10 | Approved                  | Not approved            |
| Pure 110+ | DEWALT       | 5/12/2024           | Approved for Rebar Designations #4 through #10 | Approved                  | Not approved            |

#### Prohibited from use in sustained tension applications

| Product     | Manufacturer | Approval expiration | Rebar Designations                            | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-------------|--------------|---------------------|---|---------------------------|-------------------------|
| AC100+ Gold | DEWALT       | 3/15/2024           | Approved for Rebar Designations #4 through #9 | Approved                  | Not approved            |

#### Guidance

- [Qualification process \(PDF\)](#)

#### Concrete anchorages

- [Reinforcing bar applications](#)
- [Threaded rod applications](#)

#### Contact

- [Joe Black](#)  
Bridge Office  
651-366-4485

All information submitted as part of the application process will be considered public data. Do not submit trade secret information.

- [A to Z](#)
- [Search MnDOT.gov](#)
- [Contact MnDOT](#)
- [511 Traveler Service](#)

[Skip to Content](#)



[511 Travel Info](#)

- [General Contacts](#)
- [MnDOT A to Z](#)
- [Search](#)

## Approved/Qualified Products

- [Home](#)
- [Contacts](#)

### Concrete anchorages - threaded rod applications

Products listed in the following table are approved for use on MnDOT projects unless otherwise indicated. Products prohibited from use in sustained tension applications may be used for applications which are not considered to carry sustained tension loads. Adhesives permitted for use with sustained tension applications may be used for all applications (sustained or non-sustained tension). All bar types and hole types marked with "approved" below are approved for use under the conditions stated in the table. All anchorages must be field tested as required by the contract regardless of nominal pullout requirements. Refer to project specifications and plans to determine if the anchors are in sustained tension.

Permitted sustained tension applications are specified in [MnDOT Technical Memorandum 18-11-B-01 \(PDF\)](#).

Those who use any of these products are responsible to handle, store, use, and dispose of excess material in accordance with all manufacturer's and Safety Data Sheet (SDS) recommendations.

#### Min. uncracked characteristic bond strength of 1 KSI and min. cracked characteristic bond strength of 0.5

##### For use in sustained tension applications

| Product  | Manufacturer | Approval expiration | Threaded rod diameters                          | Hole type: Hammer-drilled | Hole type: Core-drilled |
|----------|--------------|---------------------|---|---------------------------|-------------------------|
| Pure 50+ | DEWALT       | 5/12/2024           | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved                  | Not approved            |

##### Prohibited from use in sustained tension applications

| Product     | Manufacturer | Approval expiration | Threaded rod diameters   | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-------------|--------------|---------------------|--|---------------------------|-------------------------|
| AC100+ Gold | DEWALT       | 3/15/2024           | Approved for 1/2", 5/8", 3/4", 7/8", 1"; not approved for 1 1/4" | Approved                  | Not approved            |

#### Min. uncracked characteristic bond strength of 1.5 KSI and min. cracked characteristic bond strength of 0.75

##### For use in sustained tension applications

| Product   | Manufacturer | Approval expiration | Threaded rod diameters                          | Hole type: Hammer-drilled | Hole type: Core-drilled |
|-----------|--------------|---------------------|---|---------------------------|-------------------------|
| AC200+    | DEWALT       | 3/15/2024           | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved                  | Not approved            |
| Pure 110+ | DEWALT       | 5/12/2024           | Approved for 1/2", 5/8", 3/4", 7/8", 1", 1 1/4" | Approved                  | Not approved            |

##### Prohibited from use in sustained tension applications

| Product  | Manufacturer | Approval expiration | Threaded rod diameters   | Hole type: Hammer-drilled | Hole type: Core-drilled |
|----------|--------------|---------------------|--|---------------------------|-------------------------|
| Pure 50+ | DEWALT       | 5/12/2024           | Approved for 1/2", 5/8"; not approved for 3/4", 7/8", 1", 1 1/4" | Approved                  | Not approved            |