
Standard Method of Test for

**Determining the Shear Strength
at the Interface of Bonded Layers
of Portland Cement Concrete**

AASHTO Designation: T 323-03 (2020)¹

Technical Subcommittee: 3c, Hardened Concrete

Release: Group 1 (April)



**American Association of State Highway and Transportation Officials
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1. SCOPE

- 1.1. This test method covers the determination of the interface shear strength of a drilled concrete core sampled from a bonded concrete overlay pavement or bridge deck.
- 1.2. This test shall be performed on 100-mm (4-in.) diameter cores of portland cement concrete.
- 1.3. This test is applicable if, when retrieved by coring, the concrete overlay thickness is at least 25 mm (1 in.) and the thickness of the base concrete is at least 50 mm (2 in.).
- 1.4. This test procedure is based on the Iowa Department of Transportation Test Method No. Iowa 406-B (1984).
- 1.5. *This standard may involve hazardous materials, operations, and equipment. This standard does not purport to address all of the safety concerns associated with its use. It is the responsibility of the user of this procedure to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standard:*
 - [T 22M/T 22](#), Compressive Strength of Cylindrical Concrete Specimens
- 2.2. *Other Document:*
 - Iowa Test Method No. 406-B, Method of Test for Determining the Shearing Strength of Bonded Concrete, Iowa Department of Transportation, 1984.

3. SUMMARY OF METHOD

- 3.1. This method consists of applying a continuous load to the vertical diametral plane of the test specimen along the bonded interface between the overlay concrete and base concrete (Figure 1).