

DECCOBOND 710

Internal Plasticizer Migration Evaluation

Based on ASTM D7888-18

Product	Deccobond 710 Flooring Adhesive
Test Type	Plasticizer Migration / Adhesive Compatibility Evaluation
Reference Method	ASTM D7888-18
Test Start	September 1, 2026
Test Completion	September 9, 2026
Test Location	Tenco Westech Inc.

1. Purpose

The purpose of this internal evaluation was to assess the potential effects of plasticizer migration from PVC-backed flooring material into Deccobond 710 Flooring Adhesive. The evaluation was conducted using a procedure developed internally by Tenco Westech Inc. with reference to the principles and intended application of ASTM D7888-18, Standard Practice for Evaluating Adhesive and the Effects of Plasticizer Found Within Polyvinyl Chloride-Backed Floor Coverings. This evaluation was performed as an internal product assessment and is not represented as an independently certified ASTM laboratory test.

2. Scope

This evaluation was performed to observe whether exposure to PVC-backed flooring material produced visible or otherwise observable changes in Deccobond 710 that may be associated with plasticizer migration. Two test conditions were evaluated: (1) a room-temperature control specimen maintained under normal room-temperature conditions, and (2) an accelerated heat-exposure specimen maintained in an oven at a constant temperature of 77.8°C. The results are intended to provide comparative information regarding the performance and compatibility of Deccobond 710 under the conditions described in this report.

3. Reference to ASTM D7888-18

ASTM D7888-18 addresses the qualitative evaluation of potential effects caused by plasticizers contained within PVC-backed floor coverings when placed in contact with adhesives. For this internal evaluation, Tenco Westech Inc. used an elevated temperature of 77.8°C in an effort to accelerate the exposure period. Because the temperature used in this evaluation differs from the temperature specified in ASTM D7888-18, the procedure described herein should not be considered a direct ASTM D7888-18 compliance test or certification. The ASTM reference is provided solely to identify the general testing principle and subject matter upon which this internal evaluation was based.

4. Test Materials

Adhesive: Deccobond 710 Flooring Adhesive. The adhesive used for this evaluation was production Deccobond 710 Flooring Adhesive supplied by Tenco Westech Inc. **Flooring Material:** A PVC-backed flooring material was used as the flooring substrate for the evaluation. **Control:** A corresponding control specimen was prepared and maintained at normal room-temperature conditions without accelerated oven exposure.

5. Test Conditions

Parameter	Control	Accelerated
Adhesive	Deccobond 710	Deccobond 710
Flooring	PVC-backed flooring	PVC-backed flooring
Start Date	Sept. 1, 2026	Sept. 1, 2026
End Date	Sept. 9, 2026	Sept. 9, 2026
Exposure Duration	7 days	7 days
Temperature	Normal room temperature	77.8°C
Purpose	Control/reference	Accelerated exposure

6. Test Procedure & Daily Observations

September 1, 2026 — Test Initiation

- Test assembly prepared at 10:25 AM.
- Deccobond 710 adhesive was applied to the selected PVC-backed flooring material.
- Assembly was allowed to cure for approximately 24 hours at normal room temperature prior to accelerated heat exposure.
- Room-temperature control specimen was retained under normal ambient conditions.

September 2, 2026 — Initiation of Accelerated Exposure

- Adhesive/flooring assembly had cured for approximately 24 hours at room temperature.
- At approximately 10:35 AM, the accelerated test specimen was placed into the oven.
- Oven temperature was maintained at approximately 77.8°C.
- This marked the beginning of the accelerated heat-exposure period.

September 3, 2026 — Day 1 Oven Inspection

- Inspection conducted at approximately 10:30 AM.
- Adhesive exhibited a slight darkening in colour, appearing darker brown compared with the room-temperature control.
- Adhesive exhibited slightly increased tackiness.
- Bond adhesion remained consistent with the initial condition.
- No visible evidence of plasticizer leaching, migration, or other visible exudation was observed.
- No apparent loss of adhesive bond strength was observed during this inspection.

September 4–7, 2026 — Continued Accelerated Exposure

- Accelerated specimen remained in the oven at approximately 77.8°C.
- No interim inspection was recorded during the three-day weekend period.
- Specimen remained under continued accelerated exposure.

September 8, 2026 — Post-Weekend Inspection

- Accelerated specimen was inspected following the three-day weekend.
- Adhesive remained at approximately the same darker brown colour observed during the September 3 inspection.
- No additional significant darkening was observed.
- Bond adhesion remained consistent with the previous inspection.
- No visible evidence of plasticizer leaching, migration, or exudation was observed.

September 9, 2026 — Final Inspection

- Accelerated exposure period concluded.
- Specimen was removed from the oven and allowed to cool to normal room temperature before final inspection.

- Following cooling, the flooring material was peeled back to permit inspection of the adhesive and adhesive/flooring interface.
- Final observations after cooling: no evidence of plasticizer migration was observed. Bond strength remained intact and was substantial to Tenco Westech Inc. internal standards.

7. Control Specimen

The room-temperature control specimen was maintained under normal room-temperature conditions for the duration of the evaluation. No notable visible change was reported during the seven-day observation period. At final inspection, the control specimen remained well bonded, with no visible leaching, exudation, or other indication of plasticizer migration.

8. Test Results

Accelerated specimen observations recorded during the test included slight darkening of the adhesive to a darker brown shade than the control and a slight increase in tackiness during elevated-temperature exposure. Bond adhesion remained consistent during the recorded inspections. No visible evidence of leaching, plasticizer exudation, or apparent plasticizer migration was observed during the recorded inspections.

Final post-cooling/peel observations: After the accelerated specimen was removed from the oven and allowed to cool to room temperature, the flooring was peeled for inspection of the adhesive/flooring interface. No evidence of plasticizer migration was observed. Bond strength remained intact and was substantial to Tenco Westech Inc. internal standards.

9. Interpretation

The observations from this internal evaluation indicate that, under the specific conditions described, the accelerated specimen showed a slight colour change and increased tackiness during elevated-temperature exposure, while maintaining consistent observed bond adhesion. No visible evidence of leaching or plasticizer-related exudation was observed during the recorded inspections, including the final post-cooling peel inspection.

The accelerated exposure condition was intentionally conducted at 77.8°C and should not be interpreted as a direct prediction of long-term field performance or as a specific time-equivalent to normal service conditions.

10. Limitations

- This was an internally conducted evaluation by Tenco Westech Inc. and was not conducted by an independent third-party laboratory.
- The procedure was based upon the principles and intended application of ASTM D7888-18 but was not conducted exactly in accordance with all conditions specified by ASTM D7888-18.
- The accelerated exposure temperature used in this evaluation was 77.8°C. ASTM D7888-18 specifies a circulating-air oven maintained at $60 \pm 2^\circ\text{C}$.
- The seven-day exposure at 77.8°C has not been established as equivalent to a specific period of normal service exposure.
- Plasticizer migration can be influenced by flooring composition, plasticizer chemistry and concentration, adhesive formulation, adhesive thickness, temperature, humidity, contact pressure, substrate characteristics, installation conditions, and duration of exposure.
- Results obtained using one flooring material should not automatically be interpreted as representative of all PVC-backed flooring products.
- Visual observations alone do not constitute a quantitative measurement of plasticizer concentration or migration rate.
- Actual field results may vary depending on installation conditions and the specific flooring and adhesive systems used.

11. Disclaimer

This document is provided for informational and technical evaluation purposes only. The evaluation described herein represents an internal test conducted by Tenco Westech Inc. using Deccobond 710 Flooring Adhesive and should not be construed as an independent laboratory certification, third-party certification, or formal certification of compliance with ASTM D7888-18. Reference to ASTM D7888-18 is intended to identify the general test subject and evaluation principles. The procedure used by Tenco Westech Inc. differs from the published ASTM procedure, including the elevated-temperature exposure condition. No representation or warranty is made that the results obtained in this internal

evaluation will be reproduced under different laboratory, installation, environmental, flooring, or field conditions. Results may vary depending on the specific flooring material, adhesive application, installation conditions, environmental conditions, exposure duration, and other factors. Users and installers should independently evaluate the suitability and compatibility of Deccobond 710 with their specific flooring materials and intended application. To the fullest extent permitted by applicable law, Tenco Westech Inc. assumes no responsibility for losses, damages, installation failures, or other consequences arising from reliance upon this internal evaluation outside of the specific conditions under which it was conducted. This document is not intended to replace applicable manufacturer installation instructions, flooring manufacturer requirements, applicable building codes, or independent testing where such testing is required.

12. Conclusion

This internal evaluation was conducted from September 1, 2026 through September 9, 2026 to compare the behaviour of Deccobond 710 Flooring Adhesive when exposed to PVC-backed flooring under normal room-temperature conditions and an accelerated elevated-temperature condition of 77.8°C. The seven-day room-temperature specimen served as the control, while the second specimen underwent seven days of elevated-temperature exposure. Based on the observations recorded, the accelerated specimen maintained consistent observed bond adhesion and showed no visible evidence of leaching or plasticizer-related exudation. A slight darkening of the adhesive and a slight increase in tackiness were observed during elevated-temperature exposure. Following cooling and peel inspection, no evidence of plasticizer migration was observed, and bond strength remained intact and substantial to Tenco Westech Inc. internal standards.

Appendix A — Photographic Documentation

Photographs documenting the test specimens. Camera EXIF timestamps were not retained in these WhatsApp exports; dates below are taken from the WhatsApp filename. Files were copied into the working folder on September 10, 2026. Kitchen photographs, Deccobond 39 product shots, and other unrelated images from the same folder were omitted.

Figure A1 — Initial Test Assembly



Deccobond 710 and PVC-backed flooring assembly. WhatsApp filename date: September 4, 2026, 10:49 AM (earliest dated photograph of the assembled specimen).

Figure A2 — Room-Temperature Control



Seven-day room-temperature control specimen after completion of the evaluation. WhatsApp filename date: September 10, 2026 (final-inspection photo set).

Figure A3 — Accelerated Heat-Exposure Specimen



Seven-day accelerated specimen following exposure at approximately 77.8°C, shown after cooling. WhatsApp filename date: September 10, 2026.

Figure A4 — Comparative View



Side-by-side comparison of the room-temperature control (left, lighter plank) and the accelerated heat-exposure specimen (right, darker plank). WhatsApp filename date: September 10, 2026.

Figure A5 — Adhesive / Flooring Interface



Close-up of the adhesive/flooring interface during peel inspection after cooling. WhatsApp filename date: September 10, 2026.

Appendix B — Test Record

The following table summarizes the principal test conditions.

Parameter	Control	Accelerated
Adhesive	Deccobond 710	Deccobond 710
Flooring	PVC-backed flooring	PVC-backed flooring
Start Date	Sept. 1, 2026	Sept. 1, 2026
End Date	Sept. 9, 2026	Sept. 9, 2026
Exposure Duration	7 days	7 days
Temperature	Normal room temperature	77.8°C
Purpose	Control/reference	Accelerated exposure

Document classification: Internal Product Evaluation — Public Technical Information

Prepared by: Tenco Westech Inc. | Product: Deccobond 710 Flooring Adhesive | Evaluation Date: September 2026