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Part 1: Determination of water retention efficiency of
common curing compounds

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English Version

**Curing compounds - Test methods - Part 1: Determination of
water retention efficiency of common curing compounds**

Produits de cure - Méthodes d'essai - Partie 1 :
Détermination de l'efficacité de protection des produits de
cure courants

Nachbehandlungsmittel - Prüfverfahren - Teil 1:
Bestimmung der Wasserrückhaltefähigkeit von üblichen
Nachbehandlungsmitteln

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CEN/TS 14754-1:2007 (E)

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Foreword

This document (CEN/TS 14754-1:2007) has been prepared by Technical Committee CEN/TC 104 “Concrete and related products”, the secretariat of which is held by DIN.

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CEN/TS 14754-1:2007 (E)

1 Scope

This Technical Specification describes a procedure for determining the ability of a curing compound to prevent the evaporation of water from young concrete when applied immediately after the bleed water has evaporated.

NOTE The procedure involves application to a horizontal surface; it may not be applicable for use on vertical or sloping surfaces.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 197-1, *Cement — Part 1: Composition, specifications and conformity criteria for common cements.*

EN 206-1, *Concrete — Part 1: Specification, performance, production and conformity.*

EN 480-1, *Admixtures for concrete, mortar and grout — Test methods — Part 1: Reference concrete and reference mortar for testing.*

EN 1008, *Mixing water for concrete - Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete.*

EN 12350-2, *Testing fresh concrete - Part 2: Slump test.*

EN 12350-6, *Testing fresh concrete – Part 6: Density.*

EN 12350-7, *Testing fresh concrete — Part 7: Air content — Pressure methods.*

EN 12620, *Aggregates for concrete.*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 curing compound
liquid applied to the surface of concrete which prevents the evaporation of water after casting and/or during the hardening phase at early days

3.2 water retention efficiency index
the reduction in evaporation of water from the test specimen treated with a curing compound compared to an untreated specimen expressed as a percentage of the evaporation from the untreated specimen

4 Principle

The test consists of:

- measuring the quantity of water which evaporates, under specified conditions, from test specimens of concrete with and without the application of a curing compound,