



EXPERTS

of

**Materialprüfungs- und Versuchsanstalt
Neuwied GmbH**

Research institute for vulcanic building materials

Testing, monitoring and certification institute,
recognised by the construction authorities;

Recognised monitoring institute as per DIN
1045-3;

Permanent concrete test institute as per DIN
1045-3;

Private law recognition as per RAP Stra.
(specialist areas D0, D3, I1, I2 and I3)

SHORT TEST REPORT

(1st copy)

Test certificate: **6-74/0987/14b**

Client: **Evocrete Industrie GmbH
Hauptstraße 28
35619 Braunfels**

Subject: **Investigations on concrete additive
"EvoCrete ST"
analogous to DIN EN 934-2**

Date of order: **13th of June 2014**

Date of issue: **30th of September 2014**

Pages: **3**

Appendix: **--**

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Short test report 6-74/0987/14b

Page 2 of 2

On 13th of June MPVA Neuwied GmbH was contracted by Evocrete Industrie GmbH to carry out tests on concrete samples using the concrete additive

EvoCrete ST

delivered by the orderer to MPVA Neuwied GmbH. Aim of the investigations was to determine the influence of the concrete additive on the following concrete properties:

- fresh concrete properties;
- compressive strength;
- tensile splitting strength;
- flexural tensile strength;
- freeze-thaw (de-icing)-resistance.

The test results in this connection should be compared to test results determined on a reference concrete I according to DIN EN 480-1.

The following table summarizes the main test results. The report No. 9-74/0987/14a contains the complete tests and test results.



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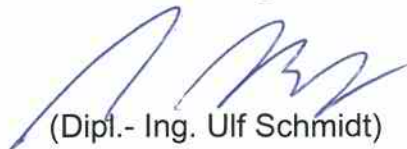
Page 3 of 2

Tabelle 1: Summary of test results on concrete comparatively

Test parameter		Sample 1	Sample 2	
		without additive	with 2% additive	
Slump according to DIN EN 12 350-5		415 mm	350 mm	
Air content according to DIN EN 12 350-7		1,1 Vol.-%	1,8 Vol.-%	
Fresh concrete bulk density according to DIN EN 12 350-6		2.362 kg/m ³	2.368 kg/m ³	
Compressive strength [N/mm ²] according to DIN EN 12 390-3	7 d	37,3	52,4	+40,5%
	14 d	43,5	54,6	+25,5%
	28 d	49,8	56,7	+13,9%
Tensile splitting strength [N/mm ²] according to DIN EN 12 390-6	28 d	3,3	3,6	+9,1%
Flexural tensile strength [N/mm ²] according to DIN EN 12 390-5	28 d	6,0	5,9	-1,7%
Freeze-thaw (de-icing)-resistance rate of disaggregation [g/m ²] according to DIN EN 12 390-9	28 d	5341	4057	-24,0 %

Neuwied, 30th of September

Person in charge


(Dipl.- Ing. Ulf Schmidt)



Institute management


(Dr. Karl-Uwe Voß)