

Influence of Taheri Consciousness Bond Field on the Alkaline Reaction of Concrete

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ABSTRACT

Some natural aggregates used in concrete contain activated silica and react with the alkalis in the concrete, the product of which is an expansion gel that eventually destroys the concrete. The aim of this study was to investigate the effects of the Consciousness Bond Field on concrete. Consciousness Bond Field is one of many Taheri Consciousness Field (TCFs) that were founded and introduced by Mohammad Ali Taheri as new Fields. These Fields are neither matter nor energy; therefore, do not possess a quantity, but they have direct effects on both matter and energy. In other words, although TCFs cannot be directly measured, we can investigate their effects indirectly through various reproducible experiments. To achieve the goal of this study, alkaline reaction stimulus aggregate was selected, and the aggregate and cement reactivity was tested. Three series of cement mortar were prepared under the ASTM C1260 standard. Two series were subjected to the TCF, and one series was considered the control. The reactivity of concrete increased (~5%) under the influence of the Consciousness Bond Field.

Keywords: Concrete, Taheri Consciousness Fields, Consciousness Bond Field, Alkaline reaction

INTRODUCTION

Concrete, known as artificial stone consisting of cement, sand, and gravel, is one of the most widely used construction materials. This material is the cornerstone of urbanization and an important component in constructing modern and industrial society today. All residential buildings (one floor to skyscrapers), industrial buildings (bio-energy, power plants, etc.), urban systems, such as water and sewage systems, as well as transportation networks are all dependent on concrete [1].

A large part of concrete is made up of aggregates that are extracted from nature. In many sand mines, there are aggregates that have a high affinity for alkaline silica to react with cement in concrete. The alkaline silica reaction was first identified in 1930 in California, USA [2]. This reaction is a chemical process in which OH⁻ ions in a concrete pores solution are combined with amorphous silica in the aggregates in concrete and then Alkaline gel compounds are produced. The presence of water and continuous swelling due to the increase of this gel leads to increase stress and fracture of concrete. When the internal stress is more than the tensile strength of the concrete, progressive cracks would be formed [3] and eventually leads to the collapse of the structure. In this study, the effect of the Consciousness Bond Filed on this process was investigated.

Taheri Consciousness Fields

The nature of consciousness and its place in science has received much attention in the current century. Many philosophical and scientific theories have been proposed in this area. In the 1980s, Mohammad Ali Taheri introduced novel fields with a non-material/non-energetic nature named Taheri Consciousness Fields (TCFs). In this perspective, T-Consciousness is

one of the three existing elements of the universe apart from matter and energy. According to this theory, there are various TCFs with different functions, which are the subcategories of a networked universal internet called the Cosmic Consciousness Network (CCN). The major difference between the theory of TCFs and other theoretical concepts about consciousness is related to the practical application of the TCFs. TCFs can be applied to all living and non-living creatures, including plants, animals, microorganisms, materials, etc.

Mohammad Ali Taheri, the founder of Erfan Keyhani Halqeh, a school of thought, introduced a new science in 2020 as a branch of this school. He coined the term Sciencefact for this new science because it utilizes scientific investigations to prove the existence of T-Consciousness as an irrefutable phenomenon and a fact. Although science focuses solely on the study of matter and energy and Sciencefact, by contrast, explores the effects of the [non-material/non-energetic] TCFs, Sciencefact has provided a common ground between the two by conducting reproducible laboratory experiments in various scientific fields, and it has used the scientific approach in proving TCFs.

The influence of the TCFs begins with the Connection between CCN as the Whole Taheri Consciousness of the universe and the subjects of study as a part. This Connection called "Ettesal" is established by a certified and trained individual who has been entrusted with the TCFs. The human mind has an intermediary role (Announcer) which plays a part by fleeting attention to the subject of study and then the main achievement obtained as a result of the effects of the TCFs. These Fields cannot be directly measured by science, but it is possible to investigate their effects on various subjects through reproducible laboratory experiments.

The research methodology in the study of T-Consciousness has been founded on the pro-



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cess of Assumption, Argument, and Proof, in which the basic Assumption is: The Cosmos was formed by a third element called T-Consciousness that is different from matter and energy.

The Argument: The existence of TCFs can be demonstrated by their effects on matter and energy (e.g., humans, animals, plants, microorganisms, cells, materials, etc.)

The Proof: is the scientific verification of the effects of TCFs on matter and energy (according to the Argument) through various reproducible scientific experiments.

Accordingly, to investigate and verify the existence, effects, and mechanisms of TCFs, the following five research phases (Phases 0 through 4), and the aims of each phase are outlined below.

Phase-0 studies aim to prove the existence of TCFs by observing their effects. The nature of T-Consciousness and what it is will not be addressed in this phase. Phase-1 explores the varied effects of different TCFs. Phase-2 examines the reason behind the varied effects of these fields. Phase-3 investigates the mechanism of TCFs effects on matter and energy. Finally, Phase-4 draws significant conclusions,

particularly with regard to the mind and memory of matter and their relation to the T-Consciousness, etc. [4-7]

Methodology

The method of selection in this experiment is to evaluate the alkaline reaction of aggregate under ASTM C 1260 [8].

Consumed aggregates: In order to better study the TCF method, aggregates were selected from the Kish Island rock mine which have high reactivity.

The experiment was performed according to the ASTM C1260 standard by preparing three groups according to this standard, and each series included three prismatic samples. This method is accelerated and strict.

Cement: The Portland cement used for all samples was type II cement from one bag. Since the samples were exposed to NaOH, the number of alkalis in the cement was not an effective parameter in expansion.

All aggregates were graded according to the requirements of Table 1.

Table 1 . Requirements for the grading of the aggregate

Weight Percentage	Sieves Size (mm)	
	Remained	Passed
10	2.36	4.75
25	1.18	2.36
25	0.600	1.18
25	0.300	0.600
15	0.150	0.300

Mortar components ratio: The ratio of dry materials for the mortar test was one part of cement to 2.25 parts of aggregate by weight, and the ratio of water to cement was equal to 0.47.

Mixing: Mixing of mortars was performed in accordance with the requirements of the ASTM C305 standard method.

Molding the samples: Immediately after making the mortar, the samples were molded.

Application of Taheri Consciousness Fields

One of the introduced TCFs is called the Consciousness Bond Field and was applied to the samples according to the protocols regulated by the COSMOintel research center (www.COSMOintel.com). A request for Connection to the CCN to utilize TCFs can be placed through the COSMOintel website in the "Assign Announcement" section. This access is available for everyone at no cost. In order to study and experience this Connection, the researchers can register on the website at any time in order to report the experiment to the COSMOintel research center. Certain details of the experiment must be provided to the center; for example, the characteristics or number and name of samples and controls must be specified. This entire experiment was carried out as a double-blind method where lab technicians were completely unaware of the TCFs.

Storage and reading of samples:

Initial storage and reading: Samples were placed in a wet chamber immediately after molding. They were removed from the mold after 24 hours and the initial reading was performed with an accuracy of 0.002 mm. The samples made with one type of aggregate were placed in a sealed chamber that had enough water to drown the samples, and the chamber was placed in an oven at $80\text{ }^{\circ}\text{C} \pm 2$ temperature for 24 hours.

Zero base reading: After 24 hours, each chamber came out of the oven in turn, and after drying their surface, the base reading of each of the prisms was done, then they were returned to the chamber; and all samples made from the aggregates were placed in a chamber with a sufficient amount of normal NaOH at $80\text{ }^{\circ}\text{C} \pm 2$ temperature so that the samples were completely drowned and the chamber was sealed and returned to the oven.

Subsequent reading and storage: The change in the length of the samples was read periodically for 14 days after the baseline reading.

Calculation Method:

The difference between base reading (zero) and reading in each time period of the samples was calculated and the expansion of the samples for each period was recorded. The average expansion of four samples for each cement and aggregate composition was reported to be approximately 0.01% of the read periods.

Results and Discussion

The expansion rate of each group with three samples is presented below in two groups under the CF and the control group.

Table 2. The expansion rate of the samples

Number	Sand Expansion after 14 days		
	A(TCF)	B(TCF)	Control
1	0.569	0.564	0.532
2	0.549	0.546	0.555
3	-	0.568	0.526
Average	0.56	0.56	0.53

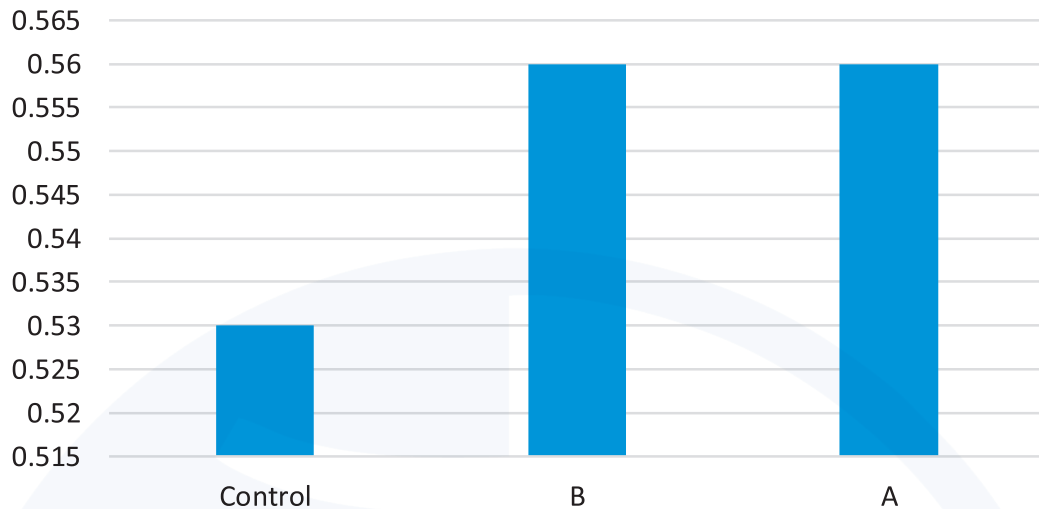


Figure 1. The average increase in expansion of each group under the TCF and the Control.

Conclusion

The effect of TCF on the alkaline reaction was to increase the destructive expansion of concrete (~ 5% -Tables: 2). Also, the results of previous research have shown that the effect of the Consciousness Bond Field on concrete is to increase hydration and thus increase strength, so in the alkaline reaction, an increase in reactiv-

ity and consequent faster degradation can be observed [7]. It can also be seen that TCFs can be used independently of each other and with different effects and have their own unique effects. As in previous research, the effect of the TCF(H) on the alkaline reaction was investigated and it was found that this Field slows down the process of concrete degradation [9].

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