



## TECHNICAL INFORMATION

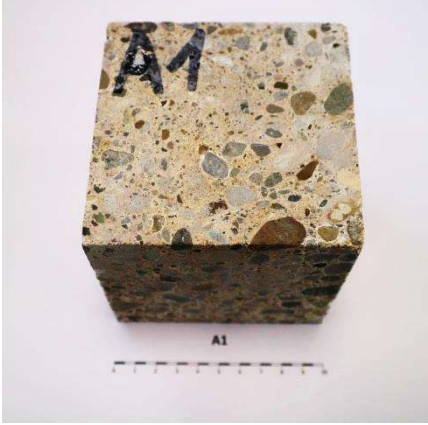
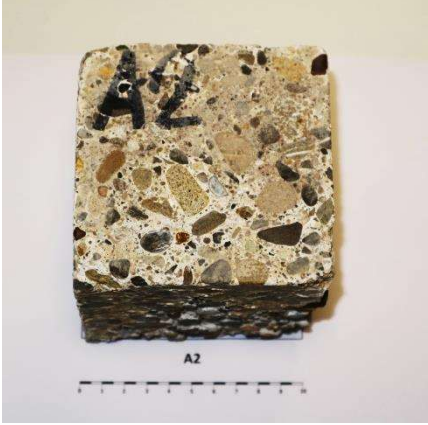
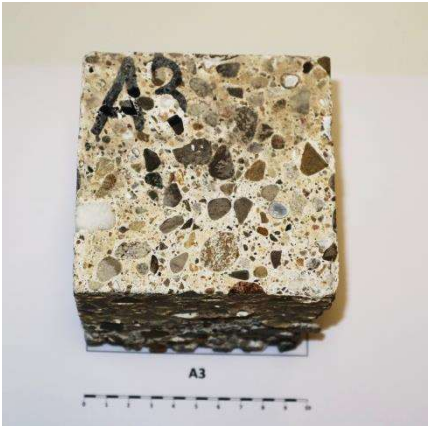
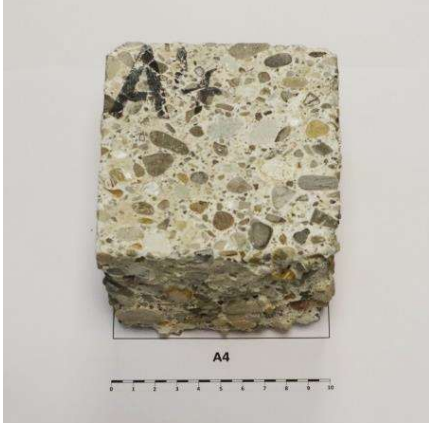
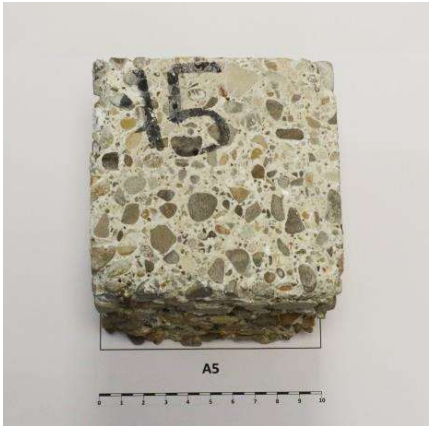


# Sika MonoTop<sup>®</sup>-4400 MIC – graphs & pictures from Fraunhofer Institute report Ref.: 20191108-01

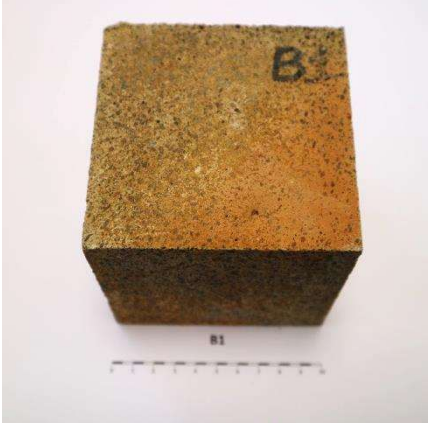




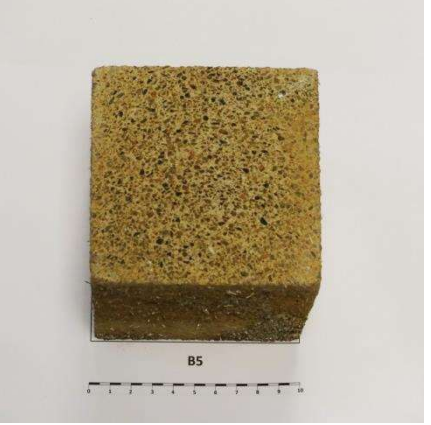

### Photo documentation

Pictures after determination of mass change




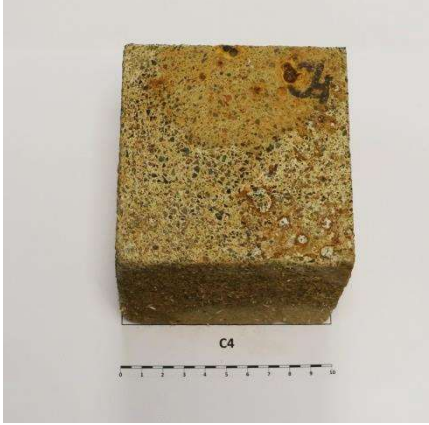
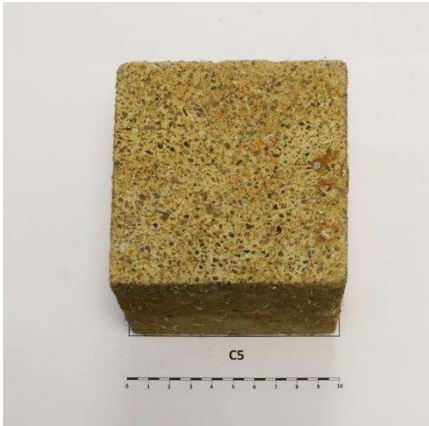


### Sika




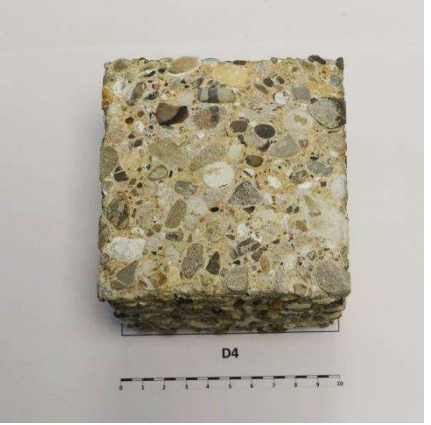



Weathering test from 18.07.2018 to 13.06.2019





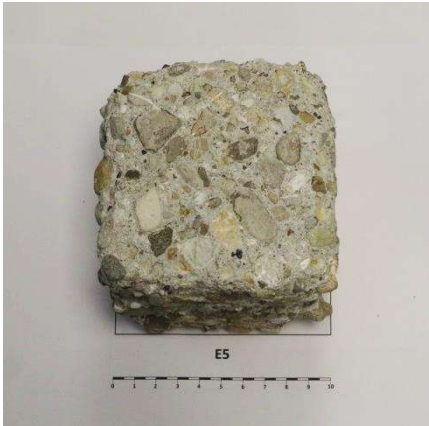


Recipe	Specimens after 10 weeks of exposure (sampling 27.09.2018)	Specimens after 25 weeks of exposure (sampling 10.01.2019)	Specimens after 37 weeks of exposure (sampling 04.04.2019)	Specimens after 47 weeks of exposure (sampling 13.06.2019)
<p><b>A: Reference Concrete (OPC)</b></p>	 <p>A1</p>	 <p>A2</p>  <p>A3</p>	 <p>A4</p>  <p>A5</p>	 <p>A6</p>  <p>A7</p>

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<p><b>B: Sika MonoTop®-4400 MIC</b></p>				
				



Recipe	Specimens after 10 weeks of exposure (sampling 27.09.2018)	Specimens after 25 weeks of exposure (sampling 10.01.2019)	Specimens after 37 weeks of exposure (sampling 04.04.2019)	Specimens after 47 weeks of exposure (sampling 13.06.2019)
<p><b>D: Sika MonoTop®-4400 MIC + Steel Fibers</b></p>	 <p style="text-align: center;">C1</p>	 <p style="text-align: center;">C2</p>  <p style="text-align: center;">C3</p>	 <p style="text-align: center;">C4</p>  <p style="text-align: center;">C5</p>	 <p style="text-align: center;">C6</p>  <p style="text-align: center;">C7</p>

Recipe	Specimens after 10 weeks of exposure (sampling 27.09.2018)	Specimens after 25 weeks of exposure (sampling 10.01.2019)	Specimens after 37 weeks of exposure (sampling 04.04.2019)	Specimens after 47 weeks of exposure (sampling 13.06.2019)
<b>D: Alumina Cement Concrete + Silica Aggregates</b>	 <p style="text-align: center;">D1</p>	 <p style="text-align: center;">D2</p>  <p style="text-align: center;">D3</p>	 <p style="text-align: center;">D4</p>  <p style="text-align: center;">D5</p>	 <p style="text-align: center;">D6</p>  <p style="text-align: center;">D7</p>

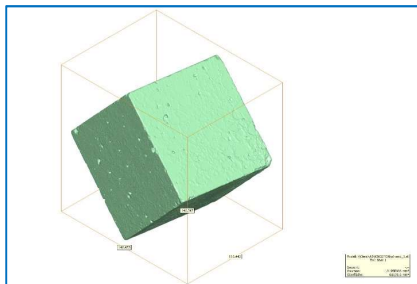
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<p><b>E: Reference concrete with slag &amp; Silica fume</b></p>		 	 	 



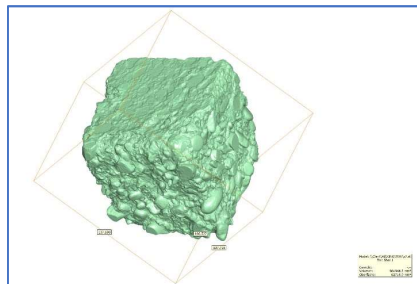
## Overview of Results

For details results, refer to the relevant annexes

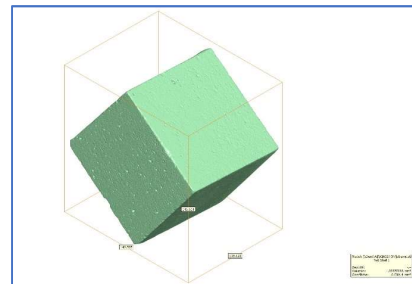
Examples of 3-D Scan at the initial stage and after 1 year (after cleaning for determination of mass loss)



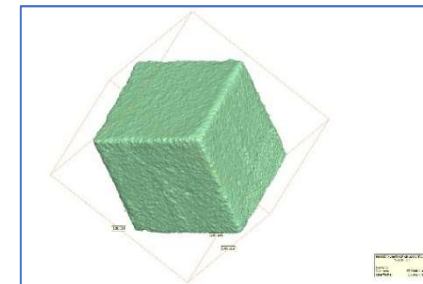
**A:** Reference concrete - initial



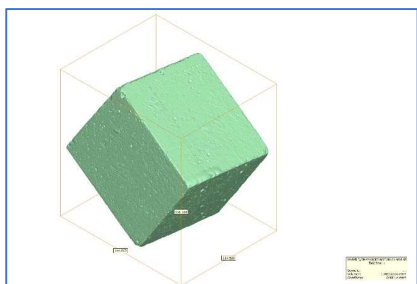
**A:** Reference concrete after 1-year exposure



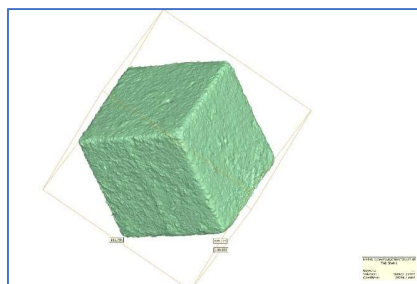
**B:** Sika MonoTop®-4400 MIC - Initial



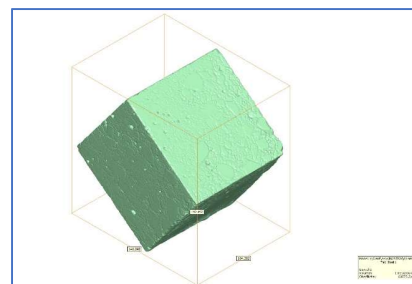
**B:** Sika MonoTop®-4400 MIC after 1-year exposure



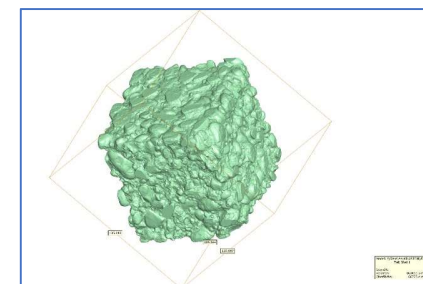
**C:** Sika MonoTop®-4400 MIC with steel fibres - initial



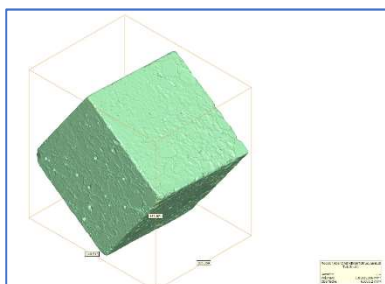
**C:** Sika MonoTop®-4400 MIC with steel fibres after 1-year exposure



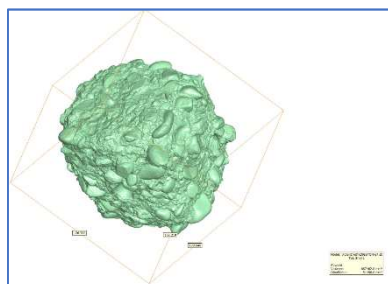
**D:** Aluminate cement concrete with silica aggregates - initial



**D:** Aluminate cement concrete with silica aggregates after 1-year exposure

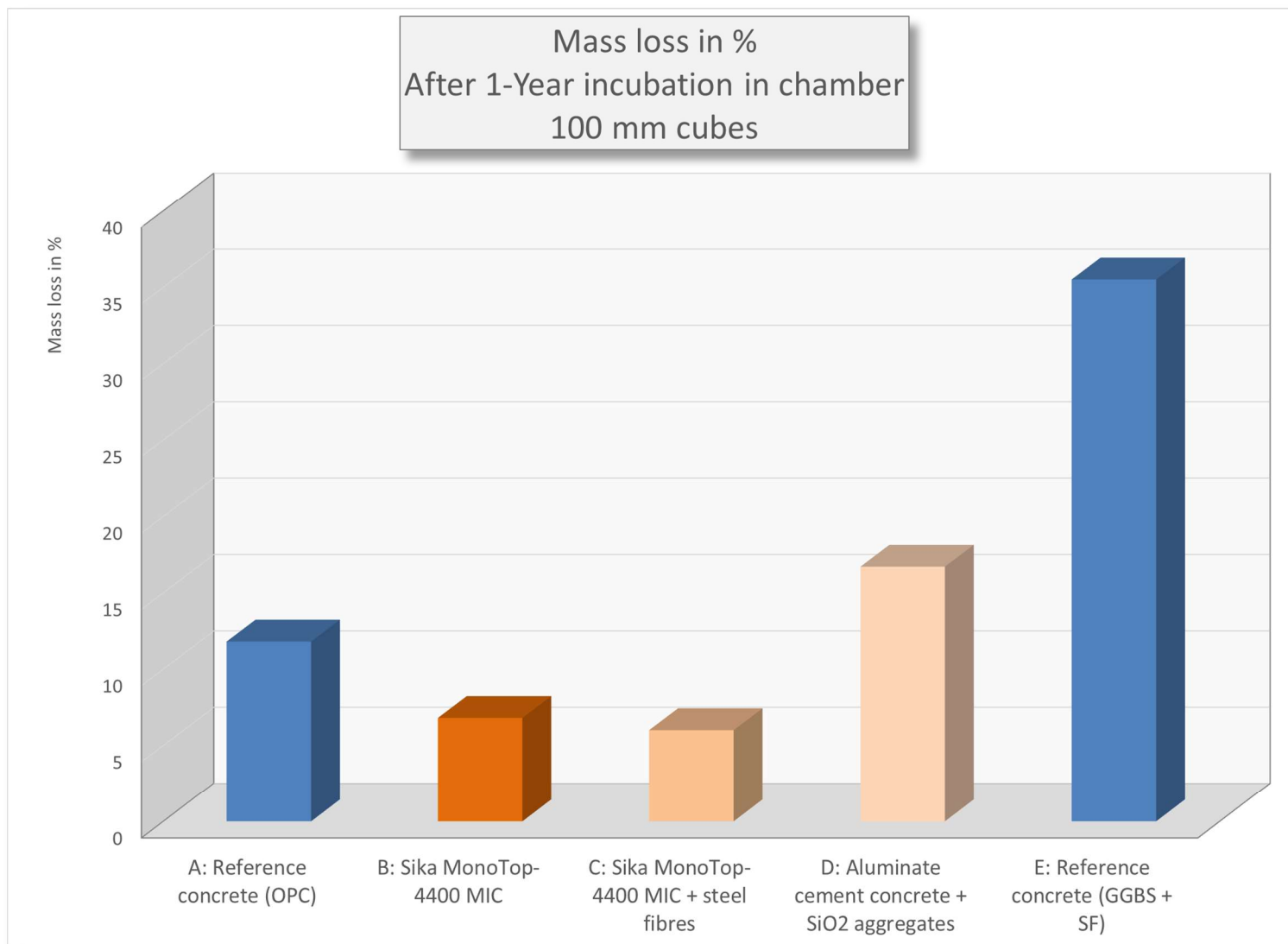


**E:** Reference concrete (Slag & SF) - initial



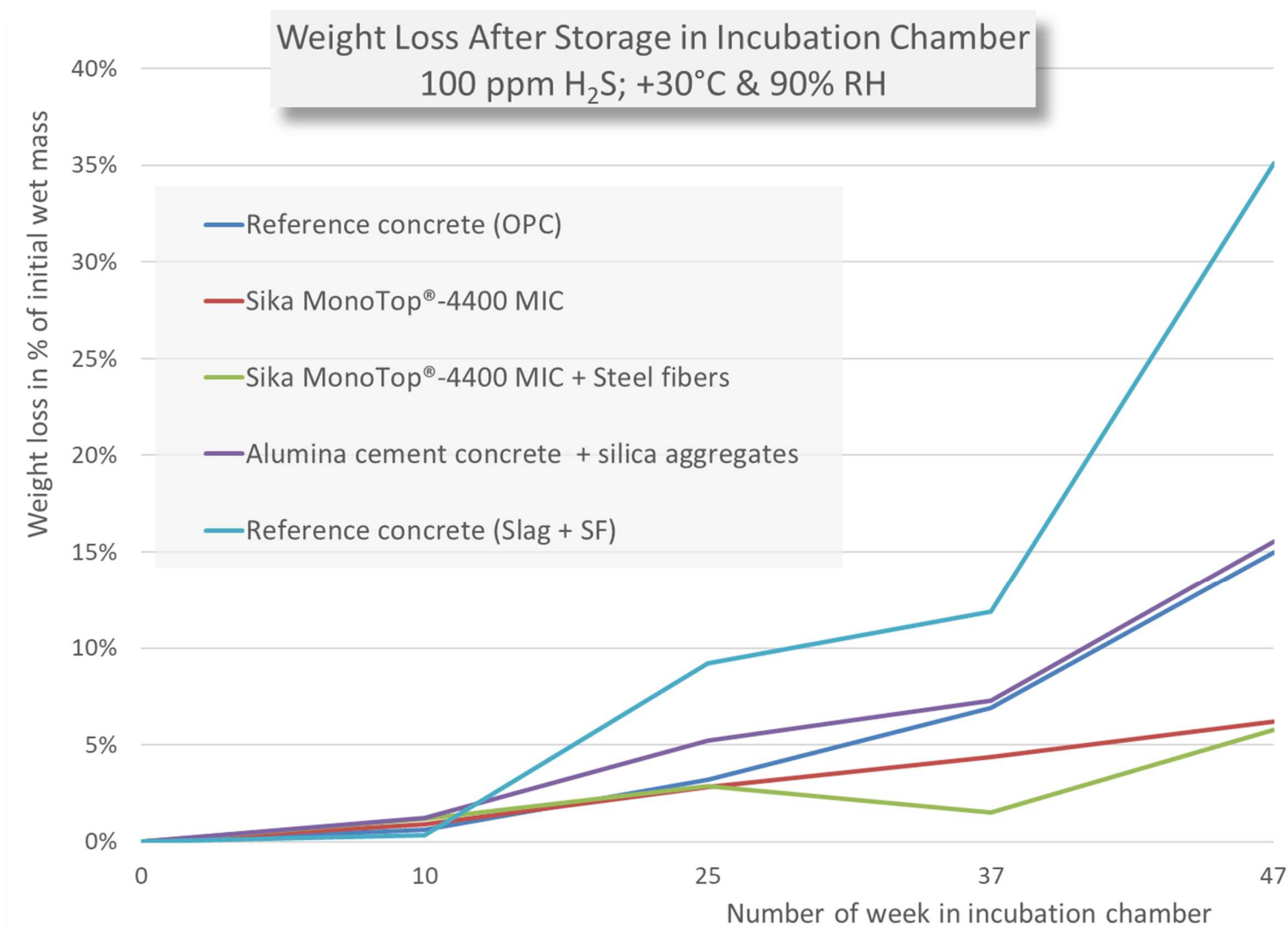
**E:** Reference concrete (Slag & SF) after 1-year exposure

# 1. MASS CHANGE (SPECIMENS 7 OF EACH CATEGORY)

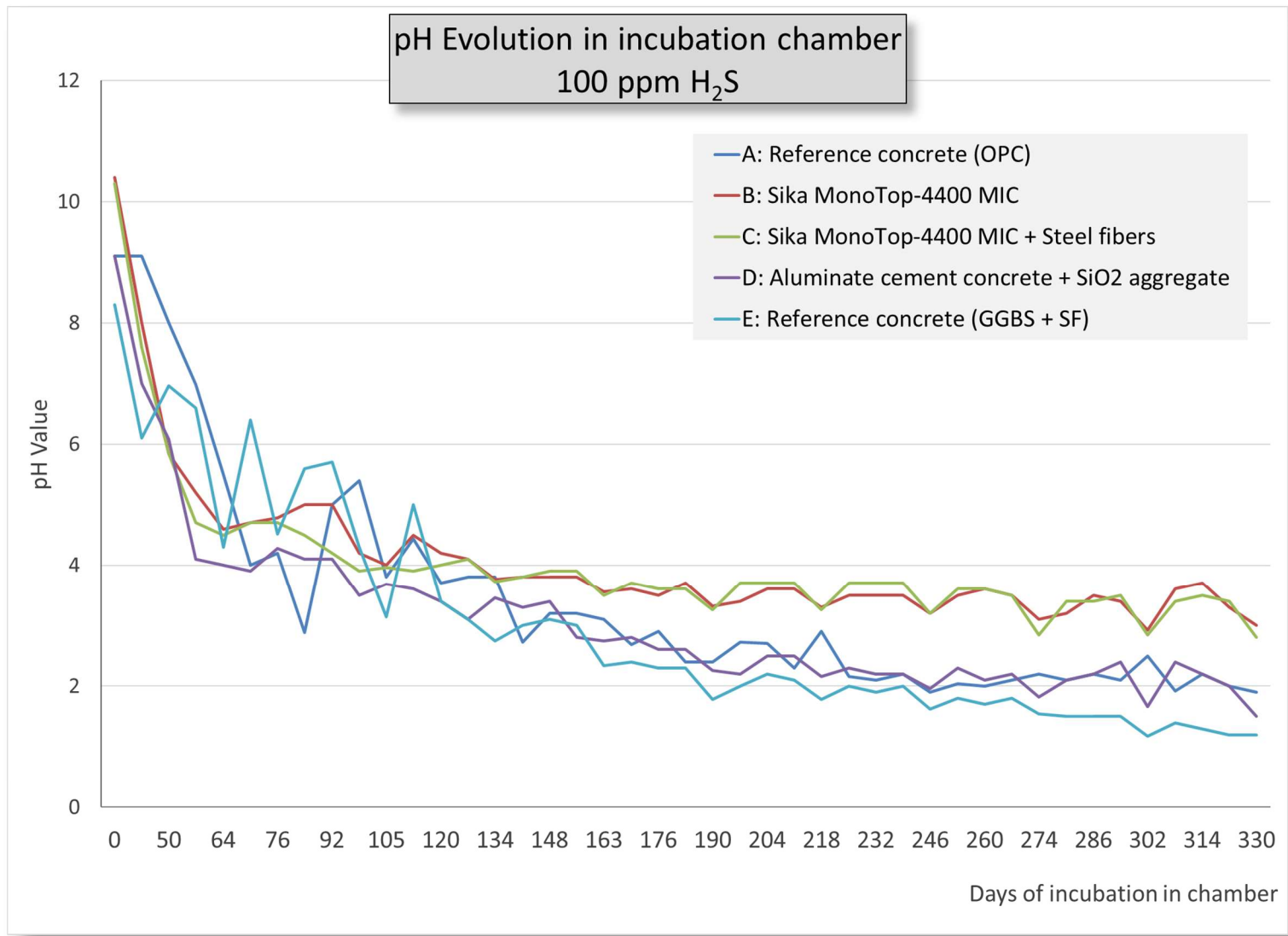




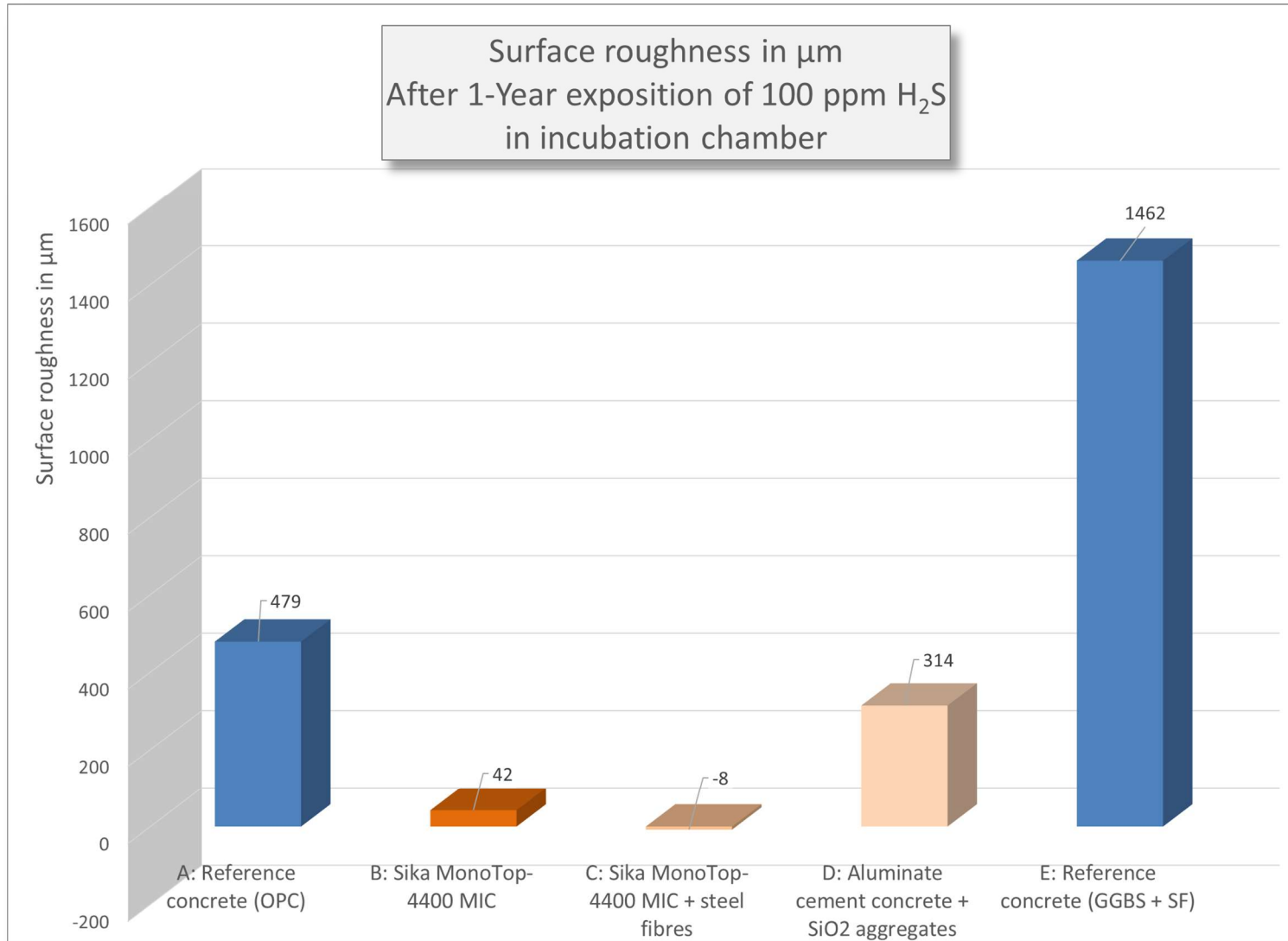
## 2. WEIGHT LOSS IN % (MEAN)



### 3. pH EVOLUTION (SPECIMEN 7 OF EACH CATEGORY)



#### 4. SURFACE ROUGHNESS (SPECIMEN 7 OF EACH CATEGORY)



## LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the products suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.