Editorial comments and replies by authors

• **Protocol Language:** Please ensure that ALL text in the protocol section is written in the imperative tense as if you are telling someone how to do the technique (i.e. “Do this”, “Measure that” etc.) Any text that cannot be written in the imperative tense may be added as a “Note”, however, notes should be used sparingly and actions should be described in the imperative tense wherever possible.

1. Some language was edited for clarity, and parts of steps (in sections 1, 2, 3.1, 3.2, 3.3, 3.4) were made into notes. Please check and edit for appropriate tense in Section 3.5 onwards.
2. Section 3.5 must be re-written for appropriate tense and using step-wise detail as in previous sections.

🡪 We have checked this and made changes throughout the manuscript in order to ensure the use of imperative tense.

• **Protocol Detail:** Please note that your protocol will be used to generate the script for the video, and must contain everything that you would like shown in the video. **Please add more details to the following protocol steps.**There should be enough detail in each step to supplement the actions seen in the video so that viewers can easily replicate the protocol.

1) 1.1.1: We realize that you have footage for this, however we need the steps described in the text for the generation of appropriate voice-over. Please describe the actions that you’d like shown in the video in the text.

🡪 We have revised this and described the actions better.

2) 1.1.2: What is to be shown here? 1.1.3 should likely be highlighted if 1.1.2 is.

🡪 We have revised this (now section 1.2.2); what should be shown in the video is when the selected location to drill a core is marked and labeled with chalk on the concrete surface.

3) 1.1.4: Here you mark sampling locations in the test area, however the test are is selected in 1.1.5, please check the order to events.

🡪 We have revised this changed the order of things. Now, first the test areas are selected, and then, within each test area, the sampling locations.

4) 1.2: Mention drill speed.

🡪 Unfortunately, we do not have this information. We have removed the statement about limiting drill speed.

5) 2.1.1.: How is the diamond cutting done? What would you show if this step was filmed?

🡪 We have revised this. The video should show how the cover (typically around 4 cm is reduced to 16-20 mm by diamond saw cutting). We can perform this step for the video team.

6) 2.1.2,2.1.3: How is it measured?

🡪 We have added the needed details about how to measure this.

7) 3.2.3: How is a measurement made? Is it simply read off the logger?

🡪 This was a misunderstanding and we have clarified this in the revised version. It refers to the settings of the data logger. For the video, a graph on the computer screen or exported as a jpg can be shown.

8) 3.3.3 should be highlighted for continuity.

🡪 We agree. Done (now section 3.3.2 in the revised version)

9) 3.4.2.: How is corrosion initiation detected?

🡪 We have revised this and added the needed details. We have also changed the order of some steps here to make things clearer.

10) 3.5.2: Is it unclear what actions are to be filmed here. How is the potential measured, ?

🡪 It should be clearer now in the revised version. Essentially, the potentials recorded by the data logger are evaluated regularly (at least twice a weak), i.e. by looking at plots of potential vs. time and checking whether or not the defined criterion for corrosion initiation is satisfied. For the video, we suggest to show an animated version of Figure 3 to illustrate that the two conditions (drop of potential and remaining at a negative level) need to be fulfilled.

11) Please use the above examples and add any necessary details to step 3.6 onward as well.

🡪 We have removed this section as well as the later ones, and converted part of the content into “notes” or moved it to different steps where appropriate.

• **Protocol Numbering:** Please adjust the numbering of your protocol section to follow JoVE’s instructions for authors, 1. should be followed by 1.1. and then 1.1.1. Please check step 3.5, if necessary and all steps should be lined up at the left margin with no indentations. There must also be a one-line space between each protocol step.

🡪 We have checked and edited the numbering throughout the manuscript. All steps are now lined up at the left margin and have a one-line space in between.

• **Protocol Highlight:** After you have made all of the recommended changes to your protocol (listed above), please re-evaluate the length of your protocol section. There is a 10-page limit for the protocol text, and a 2.75- page limit for filmable content (including subheadings and line spaces).

🡪 We have checked this. The limits (10 pages for protocol text and 2.75 pages for filmable content) are satisfied.

1) The highlighting must include all relevant details that are required to perform the step. For example, if step 2.5 is highlighted for filming and the details of how to perform the step are given in steps 2.5.1 and 2.5.2, then the sub-steps where the details are provided must be included in the highlighting.

🡪 We have checked this and made changes when needed.

2) Some of your shorter protocol steps can be combined so that individual steps contain 2-3 actions and maximum of 4 sentences per step.

🡪 We combined some of the steps in the revised version.

3) The highlighted steps should form a cohesive narrative, that is, there must be a logical flow from one highlighted step to the next. **for example: Sections 2.3,3.5 have discontinuity.**

🡪 We have checked this and made the needed amendments.

4) Please highlight complete sentences (not parts of sentences). Include sub-headings and spaces when calculating the final highlighted length.

🡪 Ok.

5) Notes cannot be filmed and should be excluded from highlighting.

🡪 Ok.

6) Please bear in mind that software steps without a graphical user interface/calculations cannot be filmed.

🡪 Ok.

7) Please ensure that the manuscript title best reflects the filmable content (i.e. the portions you highlight).

🡪 In our opinion, this is the case.

• **Figure/Table Legends:**:  
1) Fig 2,4,9: Please expand the legend to fully describe the figure.

🡪 We have expanded the legends as requested.

• **References:** Please abbreviate all journal titles.

🡪 We have made the requested changes in this regard.

• **Commercial Language:**JoVE is unable to publish manuscripts containing commercial sounding language, including trademark or registered trademark symbols (TM/R), the mention of company brand names before an instrument or reagent, and trademark company-specific product names. Examples of commercial sounding language in your manuscript are SikaTop Seal-107,  
1) Please use MS Word’s find function (Ctrl+F), to locate and replace all commercial sounding language in your manuscript with generic names that are not company-specific. All commercial products should be sufficiently referenced in the table of materials/reagents. You may use the generic term followed by “(see table of materials)” to draw the readers’ attention to specific commercial names.

🡪 We have removed commercial names.

• Please define all abbreviations at first use.

🡪 ok.

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 🡪 All figures are original (not previously published).