

TEST PROCEDURE EVALUATION Report

OPERATIVE RECOVERY SOLUTION JMR Ltd; 03 – 04.04.2014

Testprogram

Preliminary testprotocol:

The product is absorbent not anchoring agent.
The performance of the absorbent is based on strong capillary force and high air volume.
After reaching the saturation the absorbent does not leak nor dissolve into the absorbed liquid. One litre of absorbent can absorb approx. 0.9 litre of oil.

1. The absorbent and the oil are weighed before and after the reaction. By this way the parameters for testing are defined.
2. The number of tests is 12; 6 in salt water and 6 with fresh water with 3 different oil grades with and without ice.
3. Testing dates are the 3rd and 4th of april. On 4th test is observed also by oil destruction personnel.
4. Also the effectiveness of the absorbent with oily rubble will be tested.

Test report:

The testing protocol followed predetermined plan. The tests were done by using fair excessive of absorbent (15L) to improve the visibility.

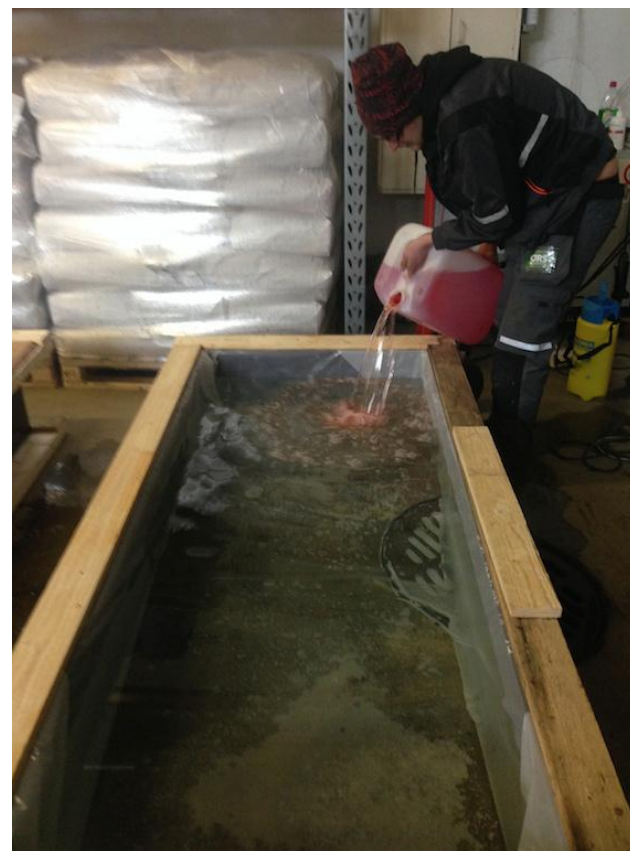
1. The weighing was done with the accuracy of three decimals and were recorded to excel spreadsheet after and before absorption.
2. On 3rd of April one serie of tests were done and on 4th also one serie according to the plan.
3. On 3rd of April the effectiveness of the absorbent was also tested with oily rubble and visibly the dissolution potential was fine. This test must be repeated to verify the effectiveness under controlled conditions.

The tests were run according to the following:



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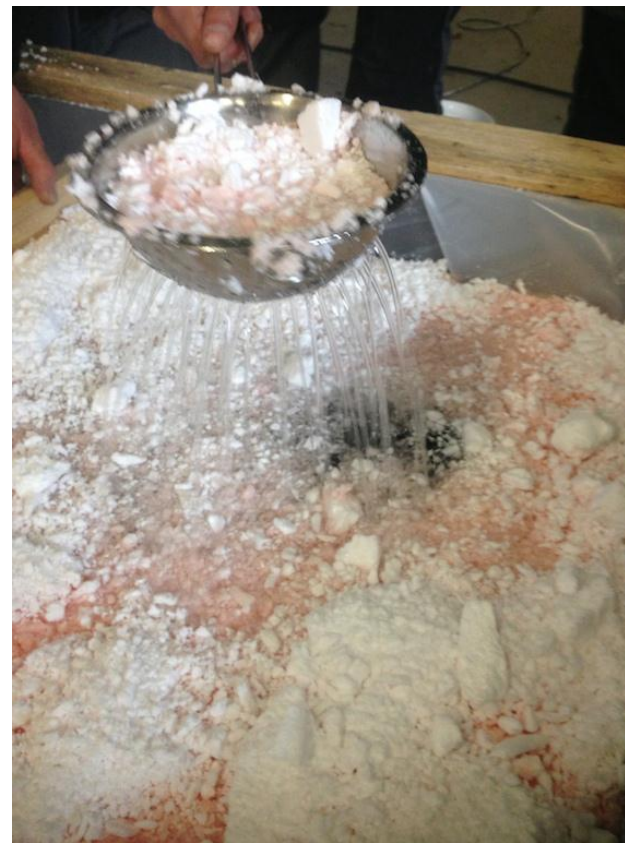
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Observations during the testing:

The absorptions seems to happen immediately. Collection of the oily absorbent material can be started right after the absorbent has been dosaged on the surface of the oil.

The amount of water adhered with the absorbent is very small approx. < 0.5 kg/15L of absorbent. Water does not seem to infiltrate into the absorbent but stays on the surface of the absorbent.

The absorbent seemed to absorb all the tested oil grades well.

When using ice together with the water the effectiveness of absorption lowered slightly. The difference however was very small.

The next step:

The testing in real or simulated conditions (in windy, in ice or in heavy waves) have to be done to verify the effectiveness of the absorbent in real intended use.

The effectiveness of the absorbent with oily rubble is going to be verified later.

The use of the absorbent also with other substances was noticed to be possible. This has to be verified in later tests.

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Summary

Testing was done according to good testing practice and according to the predetermined plans. The goals for testing were achieved and the results recorded confirmed earlier assumptions of the effectiveness and attributes of the absorbent.

The planning of the use and handling of the material in real-life conditions is justifiable to start.

Pasi Koskivaara

Lead auditor / Subcontractor

Det Norske Veritas