# Evaluation of Pencil Hardness

Harbor Guard | Pencil Hardness Test Report

REPORT REFERENCE
**PD24S-2003**

## 01 Test information

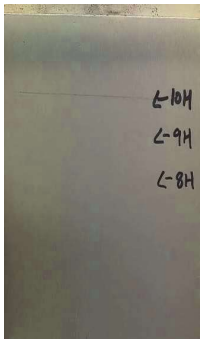
| | |
|---|---|
| **Purpose** | To evaluate the pencil hardness properties of Harbor Guard |
| **Test sample** | Harbor Guard |
| **Substrate / test panel** | Q Panel QD 36 |
| **Dry film thickness** | 11 - 14 µm |

## 02 Test method

| | |
|---|---|
| **Test standard** | ASTM D3363 - Pencil Hardness Test |
| **Scope** | Determines the hardness of a coating. |
| **Method** | Pencils of different hardness are pushed across the coating. |
| **Key points** | Pencils are held at a 45-degree angle with a 1 kg weight. The hardest pencil that does not scratch determines hardness. |

## 03 Test photographs & reference

ORIGINAL TEST EVIDENCE



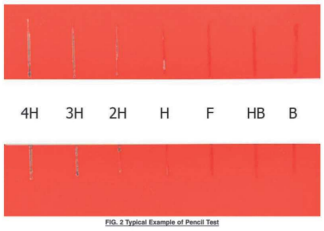




**Figure 4 - ASTM D3363 Pencil Hardness Scale**

| 6B | 5B | 4B | 3B | 2B | B | HB | F | H | 2H | 3H | 4H | 5H | 6H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Soft* | | | | | | *Medium* | | | | | | *Hard* | |

## 04 Test result

HARBOR GUARD

**Pencil hardness: 9H**

TESTED AND REPORTED BY
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