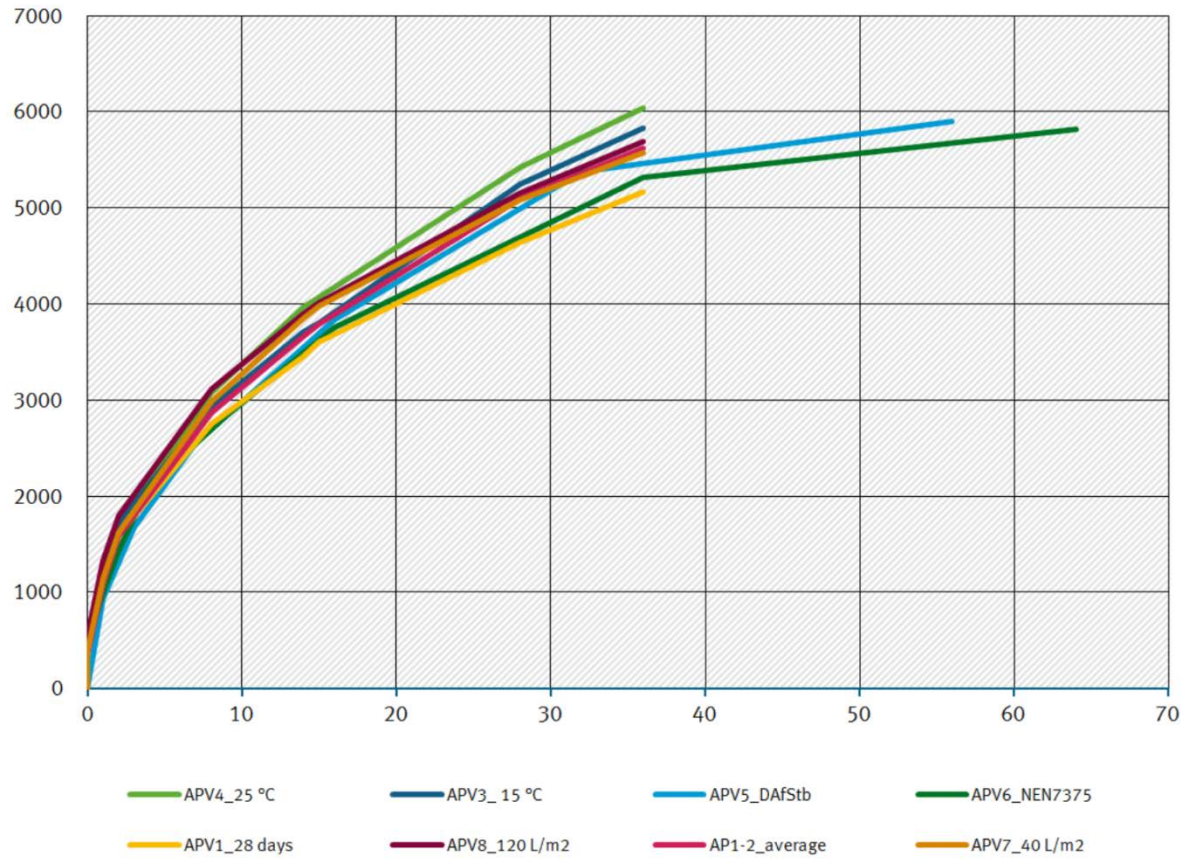
TOC release of reinforcement plaster under varying test conditions

TOC emissions in mg/m² and time in d



Variation of test conditions [1] for mortar

AP1-2_average	Average value of two standard leaching tests according to draft standard
APV1_28 days	Pre-storage time decrease to 28 days (56 days)[2]
APV3_15 ºC	Decrease of testing temperature to 15 °C (20 ± 5 °C)[3]
APV4_25 ºC	Increase of testing temperature to 25 °C (20 ± 5 °C)[3]
APV5_DAfStb	Contact times according to the DAfStb long-term tank leaching test (1 d, 3 d, 7 d, 16 d, 32 d, 56 d, ± 0.5 h in each case)
APV6_NEN7375	Contact times as per Dutch standard NEN 7375 (0.25 d ± 10%, 1 d ±10 %, 2.25 d ± 10%, 4 d ± 10%, 9 d ± 10%, 16 ± 1 d, 36 ± 1 d, 64 ± 1d)
APV7_40 L/m²	Decrease in the ratio of volume of eluent to surface of the test specimen to 40 L/m² (80 ± 1 L/m²)[3]
APV8_120 L/m²	Increase of ratio of volume of eluent to surface of test specimen to 120 L/m² (80 ± 1 L/m²)[3]

1) All variations were assayed in duplicate

2) Common pre-storage times in accordance with DIBt guidelines

3) Test conditions based on draft tank test (DSLT)

Source: Umweltbundesamt