Literature study on VOC-emissions of joint sealants according to E DIN 15651-1 and E DIN 15651-2

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The product group of the elastic joint sealants contains a wide pallete of products with different properties, applications and compositions. As previous analyses of different products show, critical emissions of volatile organic compounds are determined during analyses of joint sealants.

The established compounds are amongst others: solvents as aliphates, aromatics, glycols, reactant elimination products as acetic acid, methanol, butanone oxime or other oximes and siloxanes.

Even carcinogenic agents have been detected. Next to the emissions, which are comprised and evaluated within the VOC spectrum, furthermore also VVOC and SVOC will be expected outside the common extent of analyses of tests of accreditation.

The relevant surface of joint sealants in the indoor is comparatively small, nevertheless in particular cases also at indoor analyses, contaminations in the context with product applications could have been ascertained.

A methodical classification of the characters of the sealants due to theirs emissions is not possible on the basis of the previous analyses.

Further analyses, to concretise the testing demand of joint sealants, are necessary.