

Allgemeine bauaufsichtliche Zulassung

(National Technical Approval)

Approval number:

Z-56.28-3545

Validity period

from: **June 2, 2017**

to: **June 2, 2022**

Applicant:

Akzo Nobel Hilden GmbH
Düsseldorfer Straße 96-100
40721 Hilden

Object of approval:

Three-layer paint system "Variocryl" as hardly inflammable building material

The above-mentioned object of approval is hereby provided with the National Technical Approval.
This National Technical Approval consists of six pages.

I GENERAL PROVISIONS

- 1 The National Technical Approval proves the usability and/or applicability of the object of approval for the purpose of the State Building Laws.
- 2 The National Technical Approval does not replace the legally required approvals, consents and certificates necessary for the execution of building projects.
- 3 The National Technical Approval is granted irrespective of the rights of third parties, especially of private proprietary rights.
- 4 Irrespective of other regulations in the section "Special Provisions", manufacturers and sellers of the object of approval have to provide the user of the object of approval with copies of the National Technical Approval and have to point out that the National Technical Approval must be available at the place of application. Upon request, the authorities concerned must be provided with copies of the National Technical Approval.
- 5 The National Technical Approval may only be duplicated completely. Any publication in extracts requires the approval of the Deutsches Institut für Bautechnik. Texts and drawings in leaflets may not be inconsistent with the National Technical Approval. Translations of the General National Technical Approval must be marked with "Translation from the German original, not verified by the Deutsches Institut für Bautechnik".
- 6 The National Technical Approval is granted revocably. The provisions of the National Technical Approval may be completed or changed subsequently, especially if this should be required due to new technical findings.

II SPECIAL PROVISIONS

1 Object of Approval and Range of Application

1.1 Object of Approval

The National Technical Approval applies to the manufacturing and application of the three-layer paint system "Variocryl", henceforth referred to as "three-layer paint system", applied to one side of an MDF board with the fire behaviour Class C-s1,d0 according to DIN EN 13501-1^{1,2}.

1.2 Range of Application

1.2.1 The three-layer paint system according to Par. 2.1 may be used for coating of one side of an MDF board for interior use.

The three-layer paint system may be applied to one side of a substrate consisting of MDF boards for interior applications.

The three-layer paint system may be applied to one side of a substrate consisting of MDF board (fire behaviour: at least Class B-s2, d0 according to DIN EN 13501-1, minimum thickness: $d \geq 19$ mm, minimum gross density ≥ 790 kg/m³).

1.2.2 The coated MDF board may be mounted with metal fixtures on metal supporting structure elements. The distance to the same or other flat construction products must be ≥ 80 mm.

The joints between the coated MDF boards must be butt joined or closed by means of metal joint profiles.

1.2.3 Irrespective of this National Technical Approval, components and special components in which the three-layer paint system is used, require in proof of their standard of fire resistance separate regulations (depending on the component, e.g., a General Appraisal Certificate or a General Technical Approval). The provisions concerning the use contained in these proofs must be taken into account.

1.2.4 The three-layer paint system must not be exposed to weather outdoors.

2. Building Product Requirements

2.1 Properties and Composition

2.1.1 The three-layer paint system consists of:

- Variocryl Two-Pack MDF Isolating Primer VF with a quantity of ≤ 200 g/m² applied wet
- Variocryl Color VCC/Colour with a quantity of ≤ 120 g/m² applied wet, and
- Variocryl Two-Pack Waterborne Clear Topcoat VC with a quantity of ≤ 130 g/m² applied wet.

When applying the product onto the substrate, the individual constituent parts of the system in different mixing ratios are mixed with the Hardeners PWH 3200 according to the manufacturer's instructions.

¹ DIN EN 13501-1 :2010-01 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

² Note: Please note that the classification in a construction product class according to DIN EN 13501-1 is a preliminary decision in default of a harmonized European decision. Future harmonized product specifications may define deviating test requirements, which may require re-testing.

2.1.2 When the three-layer paint system is used on the substrates mentioned in Par. 1.2, it must meet the fire behaviour requirements of Class C-s1,d0 according to DIN EN 13501- 1, Par. 11.

2.1.3 The chemical composition of the individual materials of the three-layer paint system must correspond with the data for the individual components deposited with the Deutsches Institut für Bautechnik.
Modifications may only be made with the consent of the Deutsches Institut für Bautechnik.

2.2 Manufacture and Marking

2.2.1 Manufacture

The three-layer paint system must be manufactured observing the requirements of Par. 2.1. Transport and storage of the components must be made in accordance with the manufacturer's instructions.

2.2.2 Marking

The manufacturer has to mark the packaging or the instruction leaflet of each packing unit with the mark of conformity in accordance with the regulations concerning conformity of the Federal States. Marking may only be made if the requirements according to Par. 2.3 have been met.

The following information has to be indicated on the building product, the packaging or the instruction leaflet:

- Name of the product
- Mark of conformity with
 - Name of the manufacturer
 - Approval number: Z-56.28-3564
 - Logo or name of the testing institute
- Manufacturing site
- Fire behaviour hardly inflammably - Class C-s1,d0 according to DIN EN 13501-1 according to the application requirements

2.3 Proof of Conformity

2.3.1 General

The proof of conformity of the building product with the regulations of this National Technical Approval has to be effected for each manufacturing site based on an in-plant manufacturing control and a regular external control including an initial test of the building product according to the following regulations.

For granting the certificate of conformity and the external control including the product test to be carried out in this connection, the manufacturer of the building products has to employ a certification body and a supervision body that is licensed according to cons. No. 23/3 of the "Verzeichnis der Prüf-, Überwachungs- und Zertifizierungsstellen nach den Landesbauordnungen" (Testing laboratories, inspection bodies and certification bodies recognized according to the Landesbauordnungen ('Building Regulations of the Land'), Part IIa³.

The declaration that a certificate of conformity has been issued must be given by the manufacturer by marking the building product with the mark of conformity with reference to the designated use.

The certification body has to provide the Deutsches Institut für Bautechnik with a copy of the certificate of conformity issued by the certification body.

³ Last published electronically in the Internet in the "Mitteilungen" of the Deutsches Institut für Bautechnik under www.dibt.de -> Testing laboratories -> List of Testing laboratories 2017

2.3.2 In-Plant Manufacturing Control

Each manufacturing site must provide and carry out an in-plant manufacturing control. An in-plant manufacturing control is the continuous control of production to be carried out by the manufacturer in order to ensure that the produced building products correspond with this National Technical Approval.

The execution of the in-plant manufacturing control is subject to the "Richtlinien zum Übereinstimmungsnachweis schwerentflammbarer Baustoffe (Baustoffklasse DIN 4102 B1) nach allgemeiner bauaufsichtlicher Zulassung"⁴ (Guidelines for proof of conformance of flame-resistant building materials (Building Material Class DIN 4102 B1) as per National Technical Approval) in the applicable version.

The results of the in-plant manufacturing control must be recorded and analysed. The records must at least contain the following information:

- Designation of the building product and/or of the raw material and the components
- Type of control or test
- Date of manufacture and of the test of the building product and/or of the raw material and the components
- Results of controls and tests and, if applicable, comparison with the requirements
- Signature of the person responsible for the in-plant manufacturing control

The recordings must be kept for at least five years and must be presented to the supervision body employed for external control. Upon request, they must be presented to the Deutsches Institut für Bautechnik and the supreme building control authority concerned.

In case of an insufficient test result, the manufacturer has immediately to take measures required to remedy the deficiency. Building products, which do not meet the requirements, must be handled so that they cannot be confused with products meeting the requirements. After the deficiency has been remedied and if feasible and required in proof of the rectification of deficiencies, the test must be repeated immediately.

2.3.3 External Control

In each manufacturing site, the in-plant manufacturing control must be verified by an external control at regular intervals, at least once a year. The execution of the supervision is subject to the "Richtlinien zum Übereinstimmungsnachweis schwerentflammbarer Baustoffe (Baustoffklasse DIN 4102 B1) nach allgemeiner bauaufsichtlicher Zulassung" (Guidelines for proof of conformance of flame-resistant building materials (Building Material Class DIN 4102 B1) as per National Technical Approval) in the applicable version.

Within the framework of external control, an original inspection of the building product must be carried out and samples for sampling inspection can be taken. The authorized supervision body is responsible for sampling and inspections.

The results of the certification and of the external control must be kept for at least five years. Upon request, the certification authority or the supervision body has to submit the results to the Deutsches Institut für Bautechnik and to the supreme building control authority concerned.

3 Fire Behaviour

When the instructions according to Par. 1.2 and Par. 2 are met, the three-layer paint system is a hardly inflammable building material (Class C-s1, d0 according to DIN EN 13501-1).

⁴ Last published in the "Mitteilungen" of the Deutsches Institut für Bautechnik, Edition No. 2 of April 1, 1997

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4 Implementary Regulations

- 4.1 The regulations of Par. 1.2 must be taken into account.
- 4.2 The manufacturing instructions and the implementary regulations of the manufacturer must be taken into account.
- 4.3 The permissible application quantities according to Par. 2.1 must be complied with.
- 4.4 The fire behaviour is not attested when, in addition to the description of the object of approval, the three-layer paint system has been coated with paint, laminations or similar materials.

Peter Proschek
Head of Division

Seal of Deutsches Institut für Bautechnik
Certified J. Vogel