



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague, SOE**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán • Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body • Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

**Authorized Body 204**  
**empowered by the Decision of COSMT No 5/2017**  
**Branch 0100 – Prague**  
**issues**

in accordance with the enactment of the Law No. 22/1997 Coll. on technical requirements for products and changes of and amendments to some laws as amended, and § 2 and § 3 of the Government Decree No. 163/2002 Coll. as amended by the Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.

## NATIONAL TECHNICAL APPROVAL

No. 010-042165

construction product:

**Protective paints and coatings for timber members**  
**type/variation: FN NANO® WOOD**

Manufacturer:

**Advanced Materials - JTJ s.r.o.**

INo: 26763842  
address: Kamenné Žehrovice 23, 27301 Kladno  
plant: Kamenné Žehrovice 570, 27301 Kladno  
order: Z010190227

Authorized Body 204 attests by this National Technical Approval data about technical performance of the product in relation to its essential characteristics and methods of their tests in relation to the essential requirements listed in Annex 1 of Government Decree No. 163/2002 Coll. as amended by the Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.

National Technical Approval is the technical specification designed for conformity assessment of the product.

Number of pages of National Technical Approval incl. the cover page: 3

The person taking overall responsibility for the content of this Approval:

Ing. Zdeněk Kočí

Head Assessor

The Approval is valid till: 31 January 2023

The person taking responsibility for correctness of this Approval:

Stamp of the Authorized Body 204

Prague, 13 January 2020



Ing. Iveta Jiroutová  
Deputy Manager of the Authorized Body 204

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## 1. Description of the product and its intended use in a building:

Protective coating FN NANO® WOOD is a transparent, protective, photocatalytic mineral coating, which is used for timber parts of buildings. Special protective characteristics to keep and/or improve characteristics of wood indoor are declared. The product is possible to apply with a brush or a roller or spraying.

Plant:

Advanced Materials - JTJ s.r.o., Kamenné Žehrovice 570, 27301 Kladno

Protective coating FN NANO® WOOD meets the requirements of the Annex No. 2, group 05, consecutive number 14 of the Government Decree No. 163/2002 Coll. as subsequently amended, and the prescribed conformity assessment system complies with § 5 of the above mentioned Decree.

## 2. Product characteristics and methods their assessment:

Tab.1: Product's characteristics which are assessed at control tests „Protective paints and coatings for timber members“:

No.	Product characteristic	Testing method	Number of samples		Required (R)/ Declared (D) level
			C	S <sup>2)</sup>	
1	Adhesion	ČSN EN ISO 2409	1	1	D: level 1 (Peeling of small scales of coatings at the cross-cut. The affected area is not more than 5 % of the grid area.)
2	Water-vapour transmission properties	ČSN EN ISO 7783	1	1	D: $S_d < 0,14$ m
3	Health safety – emission of VOC	ČSN EN ISO 16000-9 <sup>1)</sup> ČSN EN ISO 16000-10 <sup>1)</sup> ČSN EN ISO 16000-11 <sup>1)</sup> Method of specialized technical workplace <sup>1)</sup>	1	1	R: Sanitary and health safety

<sup>1)</sup> Only one test method shall be selected.

<sup>2)</sup> Authorized body will check the product characteristics for random control of product properties during surveillance depending on surveillance results and factory production control.

Note: Other product characteristics stated in technical specification TN 05.14.03 are not relevant.

## 3. Factory production control

Requirements for the factory production control are laid down in Annex No. 3 of the Government Decree No. 163/2002 Coll. as subsequently amended.

## 4. List of documentation provided by the manufacturer:

Technical data sheet of the product.



## 5. List of the used technical regulations, technical specifications and other documentation:

- ČSN EN ISO 2409 Paints and varnished – Cross-cut test
- ČSN EN ISO 7783 Paints and varnished – Determination of water-vapour transmission properties – Cup method
- ČSN EN ISO 16000-9 Indoor air – Part 9: Determination of the emission of volatile organic compound from building products and furnishing – Emission test chamber method
- ČSN EN ISO 16000-10 Indoor air – Part 10: Determination of the emission of volatile organic compound from building products and furnishing – Emission test cell method
- ČSN EN ISO 16000-11 Indoor air – Part 11: Determination of the emission of volatile organic compound from building products and furnishing – Sampling, storage of samples and preparation of test specimens

TN 05.14.03 Protective paints and coatings for timber members

Act No. 258/200 Coll., of the public health protection and of the amendment of certain related acts, as subsequently amended.

Act No. 350/2011 Coll. of chemical substances and mixtures, and of the amendment of certain acts, as subsequently amended.

Government Decree No. 163/2002 Coll., laying down technical requirements for construction products, as subsequently amended.

Regulation (EC) No.1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No.1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended.

Commission Regulation (EU) No. 2018/675 of 2 May 2018 amending the Appendices to Annex XVII to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals as regards CMR substances.

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directive 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

TN 05.14.03 Protective paints and coatings for timber members

## 6. Verification tests:

- No verification tests were performed for the purposes of issuing of this national technical approval.

## 7. Detailed requirements for conformity assessment:

- Product meets the requirements of the Annex No. 2, group 05, consecutive number 14 of the Government Decree No. 163/2002 Coll. as subsequently amended, and the prescribed conformity assessment system complies with § 5 of the above mentioned Decree.
- The manufacturer ensures a factory production control accordance with the requirements of point c), Art. 2, § 5 of the said Decree.
- Surveillance of certified product will be performed **once a year**.

