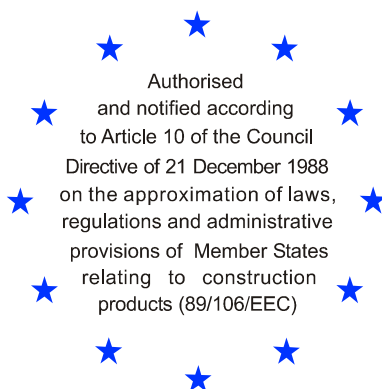


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# DIBt

Mitglied der EOTA  
*Member of EOTA*

## European Technical Approval ETA-05/0237

English translation prepared by DIBt - Original version in German language

Handelsbezeichnung  
*Trade name*

Dachabdichtung "WIDOCRYL-PM"  
Dachabdichtung "WIDOCRYL-Detail"  
*Roof waterproofing "WIDOCRYL-PM"*  
*Roof waterproofing "WIDOCRYL-Detail"*

Zulassungsinhaber  
*Holder of approval*

WIDOPAN Produkte GmbH  
Finkenhörne 4a  
21781 Cadenberge  
DEUTSCHLAND

Zulassungsgegenstand  
und Verwendungszweck

Flüssig aufzubringende Dachabdichtung auf der Basis von  
Polymethylmethacrylat

*Generic type and use  
of construction product*

*Liquid applied roof waterproofing on the basis of  
polymethylmethacrylate*

Geltungsdauer:  
*Validity:*

vom  
*from*  
bis  
*to*  
verlängert vom  
*extended from*  
bis  
*to*

1 November 2005  
31 October 2010  
1. November 2010  
31 October 2015

Herstellwerke  
*Manufacturing plants*

WIDOPAN Produkte GmbH  
Produktionsanlage 5

Diese Zulassung umfasst  
*This Approval contains*

9 Seiten einschließlich 2 Anhänge  
*9 pages including 2 annexes*



Europäische Organisation für Technische Zulassungen  
European Organisation for Technical Approvals

## I LEGAL BASES AND GENERAL CONDITIONS

- 1 This European technical approval is issued by Deutsches Institut für Bautechnik in accordance with:
  - Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products<sup>1</sup>, modified by Council Directive 93/68/EEC<sup>2</sup> and Regulation (EC) N° 1882/2003 of the European Parliament and of the Council<sup>3</sup>;
  - Gesetz über das In-Verkehr-Bringen von und den freien Warenverkehr mit Bauprodukten zur Umsetzung der Richtlinie 89/106/EWG des Rates vom 21. Dezember 1988 zur Angleichung der Rechts- und Verwaltungsvorschriften der Mitgliedstaaten über Bauprodukte und anderer Rechtsakte der Europäischen Gemeinschaften (Bauproduktengesetz - BauPG) vom 28. April 1998<sup>4</sup>, as amended by law of 31 October 2006<sup>5</sup>;
  - Common Procedural Rules for Requesting, Preparing and the Granting of European technical approvals set out in the Annex to Commission Decision 94/23/EC<sup>6</sup>;
  - Guideline for European technical approval of "Liquid applied roof waterproofing kits - Part 4: Specific stipulations for kits based on flexible unsaturated polyester", ETAG 005-04.
- 2 Deutsches Institut für Bautechnik is authorized to check whether the provisions of this European technical approval are met. Checking may take place in the manufacturing plants. Nevertheless, the responsibility for the conformity of the products to the European technical approval and for their fitness for the intended use remains with the holder of the European technical approval.
- 3 This European technical approval is not to be transferred to manufacturers or agents of manufacturers other than those indicated on page 1, or manufacturing plants other than those laid down in the annex (number) to this European technical approval.
- 4 This European technical approval may be withdrawn by Deutsches Institut für Bautechnik, in particular pursuant to information by the Commission according to Article 5(1) of Council Directive 89/106/EEC.
- 5 Reproduction of this European technical approval including transmission by electronic means shall be in full. However, partial reproduction can be made with the written consent of Deutsches Institut für Bautechnik. In this case partial reproduction has to be designated as such. Texts and drawings of advertising brochures shall not contradict or misuse the European technical approval.
- 6 The European technical approval is issued by the approval body in its official language. This version corresponds fully to the version circulated in EOTA. Translations into other languages have to be designated as such.

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1 Official Journal of the European Communities N° L 40, 11 February 1989, p. 12

2 Official Journal of the European Communities N° L 220, 30 August 1993, p. 1

3 Official Journal of the European Union N° L 284, 31 October 2003, p. 25

4 *Bundesgesetzblatt Teil I 1998*, p. 812

5 *Bundesgesetzblatt Teil I 2006*, p.2407, 2416

6 Official Journal of the European Communities N° L 17, 20 January 1994, p. 34

## **II SPECIFIC CONDITIONS OF THE EUROPEAN TECHNICAL APPROVAL**

### **1 Definition of construction product and intended use**

#### **1.1 Definition of the construction product**

The liquid applied roof waterproofings "WIDOCRYL-PM" and "WIDOCRYL-Detail" are kits, which consists of the components:

- liquid applied roof waterproofing on the basis of a two component flexible reactive polymethylmethacrylat
- polyester fleece for reinforcement

For the most substrates a primer is not required. As an assembled system these components form a homogeneous seamless roof waterproofing.

Annex 1 shows the components and the system build-ups of the roof waterproofings "WIDOCRYL-PM" and "WIDOCRYL-Detail".

The minimum layer thickness of the roof waterproofing applied is 2,3 mm. The weight of the polyester fleece is approx. 165 g/m<sup>2</sup>.

#### **1.2 Intended use**

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water. The product shows certain levels of performance according to ETAG 005 which facilitate the use taking account of national requirements (see chapter 2.1).

In the manufacturer's technical dossier<sup>7</sup> (MTD) to this European technical approval (ETA) the manufacturer gave information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The verifications which are the basis of this ETA give reason for the assumption of an intended working life<sup>8</sup> of the roof waterproofing of 10 years, provided that the roof waterproofing kit is subject to appropriate installation, use and maintenance. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

### **2 Characteristics of the construction product and methods of verification**

#### **2.1 Characteristics of the construction**

The components of the product show the characteristic values with respect to the permissible tolerances which are stated in the MTD to this ETA.

The chemical composition and the characteristic values of the components of the kit and the manufacturing methods are confidential and deposited with DIBt.

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<sup>7</sup> The manufacturer's technical dossier (MTD) comprises all information necessary for the production and the installation of the product as well as for the repair of the roof waterproofing made from that and it is deposited with DIBt. It was checked by DIBt and it was found to be in accordance with the conditions stated in the approval and the characteristic values determined during the approval testing.

<sup>8</sup> "Assumed intended working life" means that it is expected that, when this working life has elapsed, the real working life may, under normal use conditions, be considerably longer without major degradation affecting the essential requirements.

Requirements concerning safety in case of fire, health and the environment, and safety in use as well as durability in the sense of the essential requirements N° 2 to N° 4 of the Directive 89/106/EEC are satisfied.

The verified property values of the product lead to certain levels of use categories according to ETAG 005. They are stated in Annex 1. An evaluation oriented at the intended use of the product can be carried out with them by the user.

The performance of the reaction to fire behavior of the liquid applied roof waterproofing leads to the classification in class E according to EN 13501-1<sup>9</sup>.

The classification of the external fire performance of the liquid applied roof waterproofing according to EN 13501-5<sup>10</sup> is in class BROOF (t1).

According to the manufacturer's declaration the roof waterproofing taking account of the EU database<sup>11</sup> does not contain any dangerous substances.

Within the scope of this approval there may be other requirements applicable to dangerous substances resulting from transposed European legislation or applicable national laws, regulations and administrative provisions.

There may be other requirements applicable to the products resulting from other applicable national laws, regulations and administrative provisions and transposed European legislation.

These requirements need also to be complied with, when and where they apply.

## **2.2 Methods of verification**

Assessment of the fitness of the roof waterproofing for the intended use with regard to the essential requirements N° 2 to N° 4 was performed following the "Guideline for European technical approval of liquid applied roof waterproofing kits", Part 1 "General" and Part 4 "Specific stipulations for kits based on flexible unsaturated polyester" (ETAG 005-04).

## **3 Evaluation and attestation of conformity and CE marking**

### **3.1 System of attestation of conformity**

The European Commission according to her decision 98/599/EC<sup>12</sup> on the procedure of attestation of conformity has laid down for this type of material system 3 for the procedure of attestation of conformity (AoC) (Annex III, clause 2(ii) second possibility of Directive 89/106/EEC) for liquid applied roof waterproofing kits. According to this decision system 3 of attestation of conformity also applies with regard to external fire performance.

The system 3 of attestation of conformity is defined as follows:

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<sup>9</sup> EN 13501-1:2007 "Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests"

<sup>10</sup> EN 13501-5:2005 "Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests"

<sup>11</sup> Notes are stated in Guidance Paper H: "A harmonized approach relating to dangerous substances under the Construction Products Directive", Brussels, 18 February 2000

<sup>12</sup> Official Journal of the European Communities N°L 287 of 24 October 1998

System 3: Declaration of conformity of the product by the manufacturer on the basis of:

- a) Tasks for the manufacturer:
  - (1) factory production control,
- b) Tasks for the notified body:
  - (2) initial type-testing of the product.

In addition, according to the Decision 2001/596/EC of the European Commission<sup>13</sup> the system 3 of attestation of conformity applies for this type of product with regard to reaction to fire.

## 3.2 Responsibilities

### 3.2.1 Tasks for the manufacturer

#### 3.2.1.1 Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures. This production control system shall ensure that the product is in conformity with this European technical approval.

The factory production control shall be in accordance with the appropriate part of the control plan<sup>14</sup>.

The manufacturer may only use initial materials according to the MTD. He shall inspect or control the initial materials on acceptance according to the control plan.

The factory production control follows the identifying properties of the components given in ETAG 005 Part 4 and as specified in the MTD.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the control plan.

The records shall include at least the following information:

- Name of the product and of the initial materials,
- type of inspection or control,
- date of manufacture of the product, batch N° if needed, and date of inspection or control of the product or of the initial materials,
- result of inspections or controls and, as far as applicable, comparison with the requirements,
- signature of the person responsible for the factory production control.

The records shall be kept for at least five years. On request they shall be presented to DIBt.

Details concerning extent, type and frequency of the tests or inspections to be performed within the scope of the factory production control shall correspond to the control plan which is part of the MTD to this ETA.

#### 3.2.1.2 Other tasks for the manufacturer

The manufacturer shall, on the basis of a contract, involve a body which is notified for the tasks referred to in section 3.1 in the field of the product in order to undertake the actions laid down in section 3.2.2. For this purpose, the "control plan" referred to in section 3.2.2 shall be handed over by the manufacturer to the notified body involved.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this ETA.

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<sup>13</sup> Official Journal of the European Communities N°L 209/33 of 2 August 2001

<sup>14</sup> The control plan is a confidential part of the MTD and deposited with DIBt. It contains the required information on the factory production control and on the initial type-testing. The MTD is only handed over to the notified body involved in the procedure of attestation of conformity (see 3.2.2).

### 3.2.2 Tasks for notified body

#### 3.2.2.1 Initial type-testing of the product

The initial type-testing refers to the product properties stated in the appropriate part of the control plan to this ETA. They follow the product properties given in ETAG 005 Part 4.

If the verifications underlying this ETA have been furnished on samples from the current production, these will replace the initial type-testing.

Otherwise the necessary initial type-testing shall be carried out according to the provisions of the control plan and observance of the required property values shall be ascertained by the notified body.

After changing the production process the initial type-testing shall be repeated.

### 3.3 CE marking

The CE marking<sup>15</sup> shall be affixed on the packaging of the kits of the products "WIDOCRYL-PM" and "WIDOCRYL-Detail" or their accompanying documents.

The letters "CE" shall be accompanied by the following additional information:

- name and address or identifying mark of the manufacturer,
- last two digits of the year in which the CE marking was affixed,
- number of the European technical approval,
- number of the European technical approval guideline,
- short definition of the levels of performance according to Annex 1.

The components shall be marked as belonging to the kit "WIDOCRYL-PM" respective "WIDOCRYL-Detail".

## 4 Assumptions under which the fitness of the product for the intended use was favourably assessed

### 4.1 Manufacturing

The components of the kit of the roof waterproofing are factory-made according to the procedure laid down in the MTD.

The ETA is issued for the kit on the basis of the product composition deposited with DIBt. Changes to the components of the kit or in the production process of the components, which could result in the production process and/or the properties of the product deposited being incorrect should be notified to DIBt before the changes are introduced. DIBt will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment/alterations to the ETA shall be necessary.

### 4.2 Design and dimensioning

The fitness for the respective use of the roof waterproofing results from the levels of use categories stated in Annex 1, if need be, taking account of national requirements.

The supplementing statements of the manufacturer stated in the MTD for design and dimensioning of the roof waterproofing shall be considered.

In the MTD the manufacturer gave information on the quantities consumed and the processing, which shall lead to a thickness of the roof waterproofing of at least 2,3 mm.

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<sup>15</sup> Notes on the CE marking are stated in Guidance Paper D: "CE marking under the Construction Products Directive", Brussels, 1 August 2002

### **4.3 Installation**

The fitness for use of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the MTD by the manufacturer, in particular taking account of the following points:

- Installation by appropriately trained personnel,
- installation of only those components which are marked components of the kit,
- installation with the required tools and adjuvants,
- precautions during installation,
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- ensuring a thickness of the waterproofing of at least 2,3 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

The information as to the

- method of repair on site,
  - handling of waste products
- shall be observed.

### **4.4 Manufacturer's responsibilities**

It is the manufacturer's responsibility to make sure that all those who utilize the kit will be appropriately informed about the specific conditions according to sections 1, 2, 4, and 5 including the annex to this ETA and the not confidential parts of the MTD deposited to this ETA.

## **5 Indications by the manufacturer**

### **5.1 Packaging, transport and storage**

Information on:

- Packaging
- transport and
- storage

are given in the MTD.

### **5.2 Use, maintenance, repair**

Information on:

- Use
- maintenance
- repair

are given in the MTD.

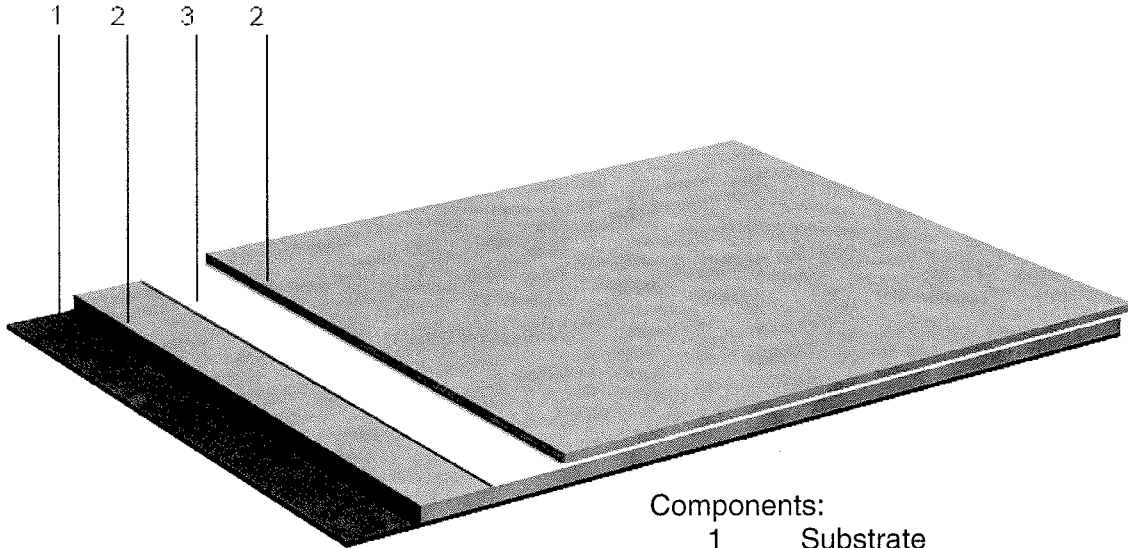
Uwe Bender  
head of department

*beglaubigt:*  
Hemme

# DEUTSCHES INSTITUT FÜR BAUTECHNIK

## System build-up of the roof waterproofing systems

### "WIDOCRYL-PM" and "WIDOCRYL-Detail"



Components:

- 1 Substrate
- 2 Liquid synthetic material
- 3 Polyester fleece (approx. 165 g/m<sup>2</sup>)

Applicable to the roof waterproofing systems "WIDOCRYL-PM" and "WIDOCRYL-Detail":	
Minimum layer thickness:	2,3 mm (minimum quantity consumed: 2,8 kg/m <sup>2</sup> )
Water vapour diffusion resistance factor $\mu$	$\approx 5150$ (at 0 % to 85 % r.h.)
Resistance to wind loads	$\geq 50$ kPa for substrates with tear resistance
External fire performance	EN 13501-5 class B <sub>ROOF</sub> (t1) for substrates according Annex 2
Reaction to fire	EN 13501-1 class E
Statement on dangerous substances	does not contain any
Resistance to plant roots	no performance determined
Resistance to slipperiness	no performance determined
Levels of use categories according to ETAG 005 with relation to:	
Working life:	W2
Climatic zones:	M and S (Severe)
Imposed loads:	P1 to P4 (non-compressible substrate, e.g. concrete/steel) P1 to P4 (compressible substrate, e.g. foam plate)
Roof slope:	S1 to S4
Lowest surface temperature:	TL4 (-30 °C)
Highest surface temperature:	TH4 (90 °C)

<p><b>WIDOPAN Produkte GmbH</b>                  Finkenhörne 4a                  21781 Cadenberge                  Germany</p>	<p><b>Roof waterproofing system</b>  <b>WIDOCRYL-PM</b>  <b>WIDOCRYL-Detail</b>                  Liquid applied roof waterproofing on the basis of polymethylmethacrylat</p>	<p><b>Annex 1</b>                  to European technical approval ETA-05/0237 dated 1 November 2010</p>
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# DEUTSCHES INSTITUT FÜR BAUTECHNIK

## Classification of the external fire performance according EN 13501-5 for the following supporting decks for the roof waterproofings "WIDOCRYL-PM" and "WIDOCRYL-Detail"

### Class **B<sub>ROOF</sub> (t1)**

The classification is valid for the following supporting decks:

- for roof pitches  $\leq 20^\circ$
- any wooden continuous deck with a minimum thickness of 16 mm and with gaps not exceeding 0,5 mm
- any non-combustible continuous deck with a minimum thickness of 10 mm and with gaps not exceeding 0,5 mm
  
- any other roof system for which classification documents for B<sub>ROOF</sub> (t1) according to EN 13501-5 are available.

**WIDOPAN Produkte GmbH**  
Finkenhörne 4a  
21781 Cadenberge  
Germany

### Roof waterproofing system

**WIDOCRYL-PM**  
**WIDOCRYL-Detail**

Liquid applied roof  
waterproofing on the basis of  
polymethylmethacrylat

### Annex 2

to European technical  
approval ETA-05/0237  
dated 1 November 2010