



# PRÜFZEUGNIS (Test Certificate)

900 9225 019-233PZV/EN (English Version) \*)

**Auftraggeber:**  
(Client) IVM Chemicals GmbH  
Johannes-Kepler-Straße 3  
71083 Herrenberg

**Betreff:**  
(Subject) Reaction to fire testing according to DIN 4012-1, class B1

**Prüfmaterial:**  
(Test material) 2K-coating system "45205x Cromapur Mehrschichtlack", or  
2K-coating system "45206x Cromapur Universallack RATIO",  
each with hardener "Cromapur Härter 46000"  
colourless, in gloss levels from 0 to 7, corresponding to gloss level  
units (measuring angle 60°) from 3 gloss "dull matt" to 60 gloss "  
semi-glossy", applied onto "schwerentflammbar" (DIN 4102-B1)  
particle boards - also veneered -

**Datum:**  
(Date) 21.05.2019

**Gültigkeitsdauer:**  
(Period of validity) until 31st January 2024

**Hinweis:**  
(Notes) The tested building-material not being used as a construction product  
according to German building regulations MBO § 2, Abs. 9, Ziffer 1,  
no "Allgemeines bauaufsichtliches Prüfzeugnis" is required.  
This test certificate is not valid, if the tested product is utilised as  
construction product according to German building regulations  
(MBO § 20, Abs. 3).

This test certificate is in no case a substitute for any required certification according to German building regulations.  
In cases where approvals are required by German building regulations and authorities, this test certificate may be utilised for issuing these approvals according to Bauregelliste:  
- Übereinstimmungsnachweise (certificate of conformity)  
- Verwendbarkeitsnachweise (allgemeines bauaufsichtliches Prüfzeugnis, allgemeine bauaufsichtliche Zulassung)  
The notes in annex D of DIN 4102-1 with reference to third-party-control are to be considered in particular.

\*) This test certificate is the English version of Prüfzeugnis 900 9225 019-233PZV dated 31.01.2019.  
In cases of doubt, the German version is valid.

Dieses Prüfzeugnis umfasst 8 Textseiten und 6 Beilagen. Textseiten und Beilagen sind mit unserem Dienstsiegel versehen. Die Veröffentlichung und Verwertung des Prüfzeugnisses, sowohl in vollem als auch in gekürztem Wortlaut sowie die Verwendung zur Werbung ist nur mit schriftlicher Genehmigung der MPA Universität Stuttgart zulässig. Das Prüfzeugnis wird unbeschadet der Rechte Dritter, insbesondere privater Schutzrechte, erstellt. Gerichtsstand und Erfüllungsort ist Stuttgart.



1. Material description

Colourless, 2K acrylic multi-layer coating, "45205x Cromapur Mehrschichtlack" or "45206x Cromapur Universallack RATIO", each with hardener "Cromapur Härter 46000", in gloss levels from 0 to 7, corresponding to gloss level units (measuring angle 60°) from 3 gloss "dull matt" to 60 gloss "semi-glossy", applied onto "schwerentflammbar" (DIN 4102-B1) particle boards - also veneered -.

Wet application: 2 x approx. 100 - 120 g/m<sup>2</sup>

Mixing ratio: coating : hardener = 100 : 10 (by weight)

Field of application: interior decoration

Trade name: "45205x Cromapur Mehrschichtlack", or  
"45206x Cromapur Universallack RATIO"

Sampling: a) 30. September 2014  
b) 24. March 2015  
c) 06. September 2016  
d) 31. October 2017  
e) 17. September 2018  
by MPA Universität Stuttgart at the factory in Bareggio / Italy

Receipt of samples: a) 19. November 2014 (Receipt-No. 14/373)  
b) 02. June 2015 (Receipt-No. 15/167)  
c) 07. October 2016 (Receipt-No. 16/343)  
d) 23. January 2018 (Receipt-No. 18/23)  
e) 08. January 2019 (Receipt-No. 19/3)

Quantity: 5 l of coating each,  
with approx. 0,5 l "Cromapur Härter 46000":  
a) "Cromapur Mehrschichtlack 452050" (stumpfmatt)  
b) "Cromapur Universallack RATIO 452067" (halbglänzend)  
c) "Cromapur Mehrschichtlack 452053" (halbmatt)  
d) "Cromapur Universallack RATIO 452060" (stumpfmatt)  
e) "Cromapur Mehrschichtlack 452050" (stumpfmatt)



2. Sample preparation

The "schwerentflammbar" particle board samples (DIN 4102-B1), 1000 mm x 190 mm, with a thickness of 12 mm, had been coated on one side by the client in Herrenberg in the presence of an MPA representative with the coatings of each sampling. The particle boards had been provided by MPA.

Application (wet): 2 x approx. 100 - 120 g/m<sup>2</sup>

Type of application: spray-painting

Mixing ratio (by weight) coating : hardener = 100 : 10

For the B2-tests, samples with a size of 190 mm x 90 mm had been cut from the coated particle board samples.



### 3. Test Procedure

The tests were performed according to standard DIN 4102-1 : 1998 and DIN 4102-16 : 2015, using the Brandschacht according to DIN 4102-15 : 1990 and the "Zulassungsgrundsätze für den Nachweis der Schwerentflammbarkeit von Baustoffen (Baustoffklasse DIN 4102-B1)" (August 1994 edition), issued by Deutsches Institut für Bautechnik, Berlin".

All samples were tested free-hanging without any substrates.

### 4. Testing Results

#### 4.1. Tests according to DIN 4102-1, clause 6.2 – class B2

edge application of flame to each specimen

Material	a)			b)		
Test No.:	1	2	3	4	5	6
Max. flame height within 20 s	3	3	3	3	3	3
Burning droplets	without			without		

Material	c)			d)		
Test No.:	7	8	9	10	11	12
Max. flame height within 20 s	3	3	3	3	3	3
Burning droplets	without			without		

Material	e)			-		
Test No.:	13	14	15			
Max. flame height within 20 s	4	4	4			
Burning droplets	without					

#### 4.2. Tests according to DIN 4102-1, clause 6.1 – class B1

Brandschacht-test A: with material a)  
Brandschacht-test B: with material b)  
Brandschacht-test C: with material c)  
Brandschacht-test D: with material d)  
Brandschacht-test E: with material e)

