

VALIDATION REPORT No. 382376

This document is based on test report No. 301982
issued by Istituto Giordano

Customer

AZICHEM S.r.l.

Via Giovanni Gentile, 16/A - 46044 GOITO (MN) - Italy

Item*

coating system used as a type "A" encapsulation coating called
"ELASTOCAP-ABC"

Activity



verification of asbestos-fibre encapsulation properties in
accordance with standard UNI 10686:1998 dated
31/03/1998 indicated in Annex 2 to Draft
Interdepartmental Decree dated 25/01/1999, legislative
extension of Act No. 257 dated 27/03/1992, in
compliance with the provisions of Health Ministry
Decree dated 20/08/1999 published in the Official
Journal No. 249 dated 22/10/1999

Results

SUITABLE

(*) according to that stated by the customer.

Bellaria-Igea Marina - Italy, 29 April 2021

Chief Executive Officer

Order:
88319

Identification of Item received:
2012/0586 dated 27 March 2012

Activity date:
from 14 May 2012 to 10 October 2012

Activity site:
Istituto Giordano S.p.A. - Blocco 4 - Via San Mauro,
8 - 47814 Bellaria-Igea Marina (RN) - Italy

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The results relate only to the item examined, as received, and are valid only in the conditions in which the activity was carried out.

This document extends the validity of all numerical and descriptive data contained in the reference test report.

This document is the English translation of the validation report No. 382376 issued in Italian; in case of dispute the only valid version is the Italian one.

Date of translation: 9 September 2021.

The original of this document consists of an electronic document digitally signed pursuant to the applicable Italian Legislation.

Chief Test Technicians:

Dott. Oscar Filippini

Head of Chemical Laboratory:

Dott. Oscar Filippini

Compiler: Agostino Vasini

Reviewer: Dott. Oscar Filippini

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Description of Item*

The Item under consideration consists of a coating system for use as a TYPE "A" encapsulation coating (externally exposed) for asbestos cement sheets applied to substrates of new fibre-cement slates, thickness of between 4 mm and 10 mm, complying with standard UNI EN 492:1995.

Normative references

Standard	Title
UNI 10686:1998	Encapsulated coatings for asbestos-cement sheets - Requirements and test methods

Method

Description of specimens

In accordance with Customer instructions, test laboratory staff arranged to apply the sample to the specimens, comprising fibre-cement slates (standard UNI 10686:1998 clauses 7 and 8 and Health Ministry Decree dated 20/08/1999 clause 5), in the following manner:

- FINISH: application of a coat ELASTOCAP-ABC;
- FINISH: application of a coat of ELASTOCAP-ABC of contrasting colour to the previous coat.

Test procedure

Each test is carried out on 3 specimens, using the acceptance criterion for test results prescribed by clause 10 of standard UNI 10686:1998.

Having performed preliminary tests to check thickness in accordance with standard UNI EN ISO 2808:2007 "Paints and varnishes - Determination of film thickness" and determine adhesion in accordance with standard UNI EN 24624:1993 dated 30/06/1993 "Paints and varnishes. Pull-off test for adhesion", the specimens underwent water impermeability, freeze/thaw, heat/rain, accelerated weathering by exposure to UVB light/condensation and impermeability tests.

At the end of testing, the final checks requested by standard UNI 10686:1998 were performed.

Results

Preliminary checks

	Specimen 1	Specimen 2	Specimen 3
Determination of thickness in accordance with standard ISO 2808:2007	290 µm	300 µm	290 µm
Pull-off test for adhesion in accordance with standard UNI EN 24624:1993	1,35 MPa	1,34 MPa	1,34 MPa

(*) according to that stated by the customer, apart from characteristics specifically stated to be measurements. Istituto Giordano declines all responsibility for the information and data provided by the customer that may influence the results.

Results

	Viewed through 10x optical microscope			Adhesion			Thickness		
	Specimen 1	Specimen 2	Specimen 3	Specimen 1 [MPa]	Specimen 2 [MPa]	Specimen 3 [MPa]	Specimen 1 [µm]	Specimen 2 [µm]	Specimen 3 [µm]
Freeze-thaw	intact	intact	intact	1,32	1,33	1,32	290	290	300
Heat-rain	intact	intact	intact	1,32	1,32	1,33	290	295	290
Accelerated weathering by exposure to UVB light/condensation and impermeability	intact	intact	intact	-	-	-	295	300	295

	Water impermeability			Presence of colour on top coat		
	Specimen 1	Specimen 2	Specimen 3	Specimen 1	Specimen 2	Specimen 3
Water impermeability	pass	pass	pass	-	-	-
Freeze-thaw	pass	pass	pass	yes	yes	yes
Heat-rain	-	-	-	yes	yes	yes
Accelerated weathering by exposure to UVB light/condensation and impermeability	pass	pass	pass	yes	yes	yes

Findings

In accordance with the tests performed, the results obtained and the provisions of Health Ministry Decree dated 20/08/1999, the Item under consideration is **SUITABLE** for "TYPE A" encapsulation of asbestos-cement sheets.