



Smart Elastic Stone

Unique Finishing Material



#223991196



5000 Years of
Real Stone Use

Advantages of Real Stone

Longevity

Durability

Moisture
Resistance

Heat
Resistance



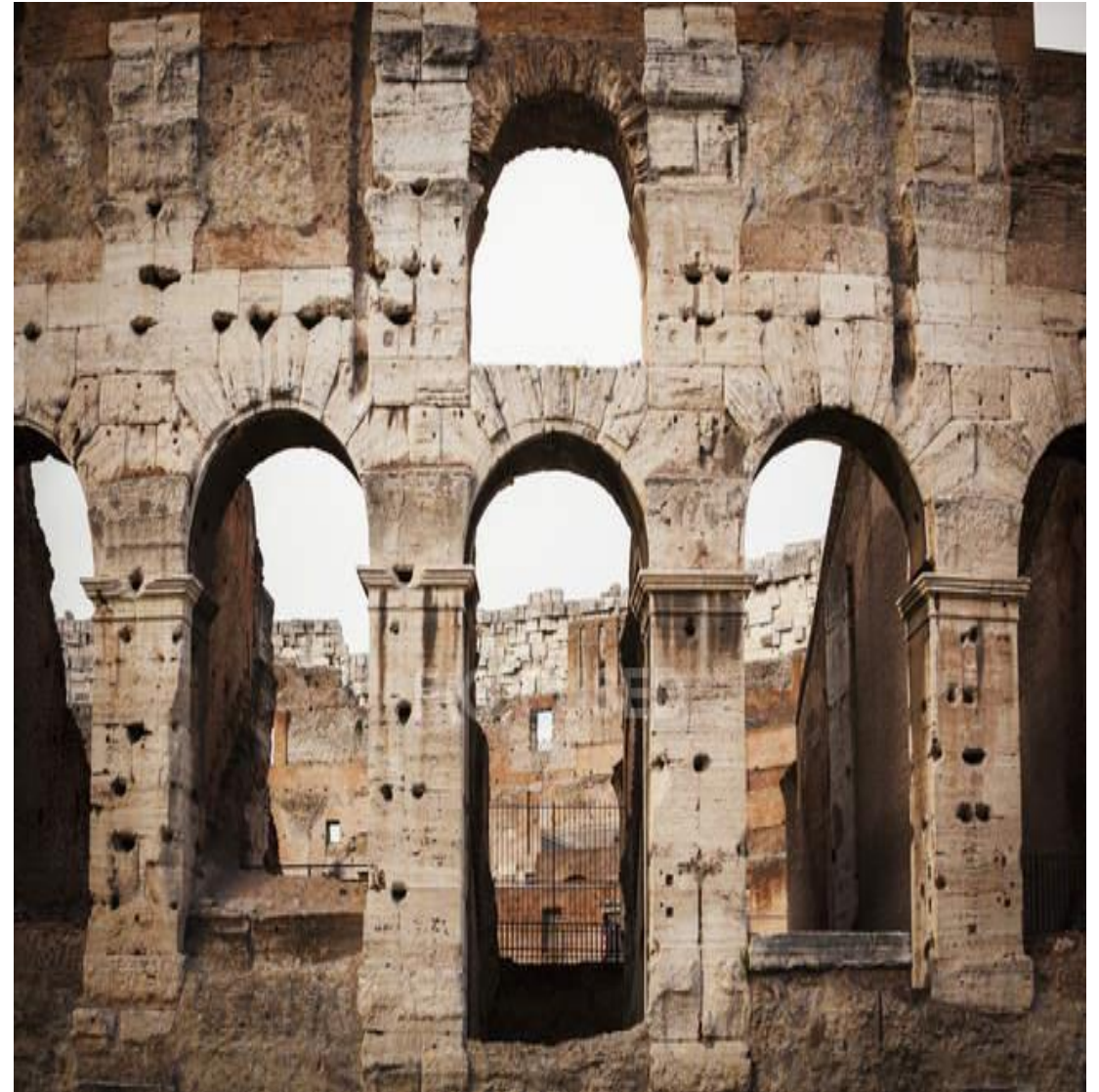
Disadvantages of Real Stone

Heavy

Transport

Complex
calculation

Radioactive





What is Elastic Stone?

- A unique stone finishing material created with Patented Technology. Available in different designs and stone types.
- All ingredients for production are natural, with no synthetics or chemicals! A Truly GREEN PRODUCT!
- Is designed to fully reflect the costly effects of exterior and interior decoration of walls, ceilings, cornices, columns, and other complex elements with natural stone and wood.
- Multi-layer material, face layer consists of natural stone marble, right under it a Patented Technology.
- Easily bent to 180 degrees, allowing you to install it on angular or radial surfaces.

Today's Solution for Tomorrow



GREEN



LIGHTWEIGHT



FLEXIBLE

Technical Advantages Of Smart Elastic Stone

Ecology - class 1
(no radiation background)



Weight 2 – 3.5 Kg/Sqm
(no additional load on the walls)

Temperature condition
(-50) - (+420)



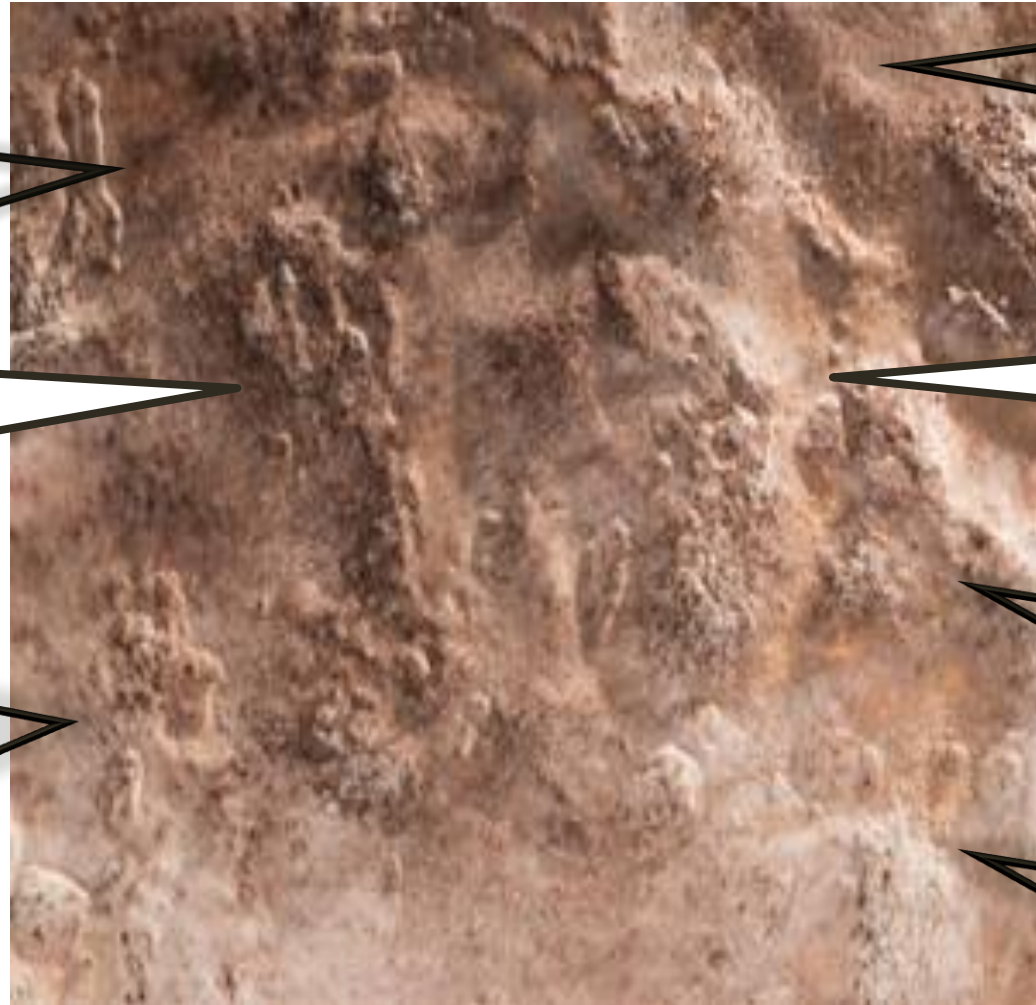
Thermal Factor - 0.137 w/Mk
(Same as foam concrete 10cm thick)



Water absorption less than 5%
(after installation on the surface)

Thickness \approx 2mm – 3.5mm

Breaking force 8.1 MPa Peel
Force 600 Kg/Sqm



Elastic Stone vs. Regular Stone

ELASTIC STONE

- Light Weight – 2.5kg/Sqm
- Design Prep – No special calculations needed
- Installation – Quick and does not require special skills
- Safety – There is no danger in case a tile comes loose
- Impregnability – Endures all weather conditions and ground movements
- Transport and Storage – Light and thin. Easy to transport and store.

REGULAR STONE

- Heavy - Upward of 25kg/Sqm
- Design Prep – Require complex calculations & costly framework
- Installation – Time-consuming and requires special professionals
- Safety – Great strain on the wall, possibility of falling and endangering human life
- Impregnability – The possibility of cracks, breakaway in extreme weather, depreciation, and ground movements
- Transport and Storage – Heavy and bulky. High transportation costs and require large amount of space to store.

Technical Advantages Of Smart Elastic Stone

Fire Certificate (EU)



REACTION TO FIRE CLASSIFICATION REPORT IN ACCORDANCE WITH PN-EN 13501-1+A1:2010

Contract no. 01267/17/Z00N2P	
Sponsor:	Flex Decor Elastic Stone Decoration Ltd. Alonim St 14/53 4256514 Netanya Israel
Prepared by:	Building Research Institute; 1, Filtrowa str. 00-611 Warszawa, Poland
Product name:	Finishing material with trade name SMART STONE for ceilings, internal and external walls
Classification report No.:	1267/17/Z00N2P
Issue number:	1 (version in English) Copy for ITB
Date of issue:	14.07.2017

This classification report consists of three pages and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification assigned to finishing material with trade names SMART STONE in accordance with the procedures given in PN-EN 13501-1+A1:2010.

2. Details of classified product

2.1 General

The product is defined as finishing material for ceilings, internal and external walls.

2.2 Product description

The product, is described below.

Product description:
Finishing material with trade name SMART STONE. Material consists: marble powder, quartz sand, white cement, nonwoven material (fiber glass).
The thickness of material is 2,5 – 3,5 cm.
Surface mass of product 2,5–3,5 kg/m²

3. Test reports & test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report no.	Test method
Fire Testing Laboratory of ITB	Flex Decor Elastic Stone Decoration Ltd.	LZP01-1267/17/Z00N2P	PN-EN ISO 11925-2:2010
		LZP02-1267/17/Z00N2P	PN-EN 13823+A1:2014

CS-611 | Warsaw | Filtrowa 1 | tel. +48 22 515 14 71 | fax. +48 22 515 52 86 | Regon: 000053610 | VAT: PL5230009198 | Nipon Polska S.A. | IBAN: PL58 1240301819 89000058291882 | SWIFT: PKOPPL33 | www.itbpl | instytut.itb.pl

Report on Testing Flex Décor flexible cover around Sea environment		SYSTEM	
Report Number: 650896-1			
Project and Sampling Details.		Project No.: 61767	
Project Name:	Testing Salt crystallization decorative elastic Coverings mat	Report No.:	650896-1
Client's Name:	Flex Decor - elastic Stone Design Ltd	Order date:	23/09/16
Client's address:	St. Alonim 14 - Netanya	Sampled from (Site):	23/09/16
Contractor:	Flex Decor - elastic Stone Design Ltd	Sampling:	by the client
Construction:	Preliminary tests	Branch name:	Yavne
Supplier / Producer:	Flex Decor - elastic Stone Design Ltd	Branch address:	Building "Mal HaTzomet" HaYarmuch 1 - Yavne
According to SI 2378 - Part 1			
Sample Details:		Sample Size: 3	
Commercial Name:	Flex Decor - elastic Stone	Dimensions (mm):	200*200*2.5
Color:	Beige	Absorption Declared:	-
Texture:	Decorating Tiles	Batch Quantity (m ²):	Preliminary tests
Label/Sign:	-		
Type of stone:		Environmental conditions:	
Carbonaceous:	Limestone Dolomite Sandstone Hebron Stone	normal	freeze-thaw
Magmatic:	Granite Basalt Diorite Gabbro		air pollution
Metamorphic:	X Flexible coating material coverings walls - Flex Décor	X	Sea environment
Test Results			
Std. Par.	6.1.4	6.1.10 / 6.1.8	
Salt crystallization durability			
Test Piece No.	Visual inspection after 15 cycles	A relative change in mass	
1	Without cracking, disintegration or separation of layers	0.2	
2	Without cracking, disintegration or separation of layers	0.2	
3	Without cracking, disintegration or separation of layers	0.9	
Requirement	Without cracking, disintegration or separation of layers	Max 3%	
Compliance in SI 2378 - part 1:	Compliance	Compliance	
Notes:			
The tests were performed on elastic flexible decorative material type Flex Décor demanded by the customer representative.			
Page 1 of 2			
Tested by:	Haim Vaisman	Date:	09/11/16
Approved by:	Gadi Maor - Technical Manager	Signature:	

Acoustic Certificate (Israel)



תאריך: 26 אוקטובר 2015



ציפוי "אבן אלסטית" על בסיס לוחות גבס

חב' פלקס דקור – עיצוב באבן אלסטית בע"מ

מדדת מקדם בליעת קול בחדר ההודו
לפי תקן ISO 354

מספר בדיקה: 1250-1

מכון התקנים הישראלי
ח"מ לבנון 42 – ת"א
פלנק דקור - עיצוב באבן אלסטית בע"מ
האלונים 14, נתניה
איגוד חדר פריד
26-10-2015
25-10-2015
סרטי 11 עמודים
סקסט
A נספח
B נספח
C נספח
D נספח

לקוח
כתובת
יען
כתובת
מנהל מתקן
תאריך הדו"ח
תאריך המדידה
מס' דפים
5 עמודים
1 עמודים
2 עמודים
2 עמודים
1 עמודים

Ocean Water Resistance (Israel)

ISO Certificate 14001 (EU)

Available Finishes

SPLITFACE FINISH



BRUSHED FINISH



SANDBLASTED FINISH



WOOD FINISH



Build Smarter with ICM Technology

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