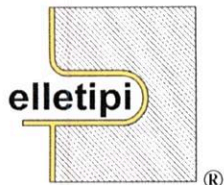


Test reports

MasterSeal Roof 2160



elletipi s.r.l.

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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str. 372 - 26123 Oldenburg

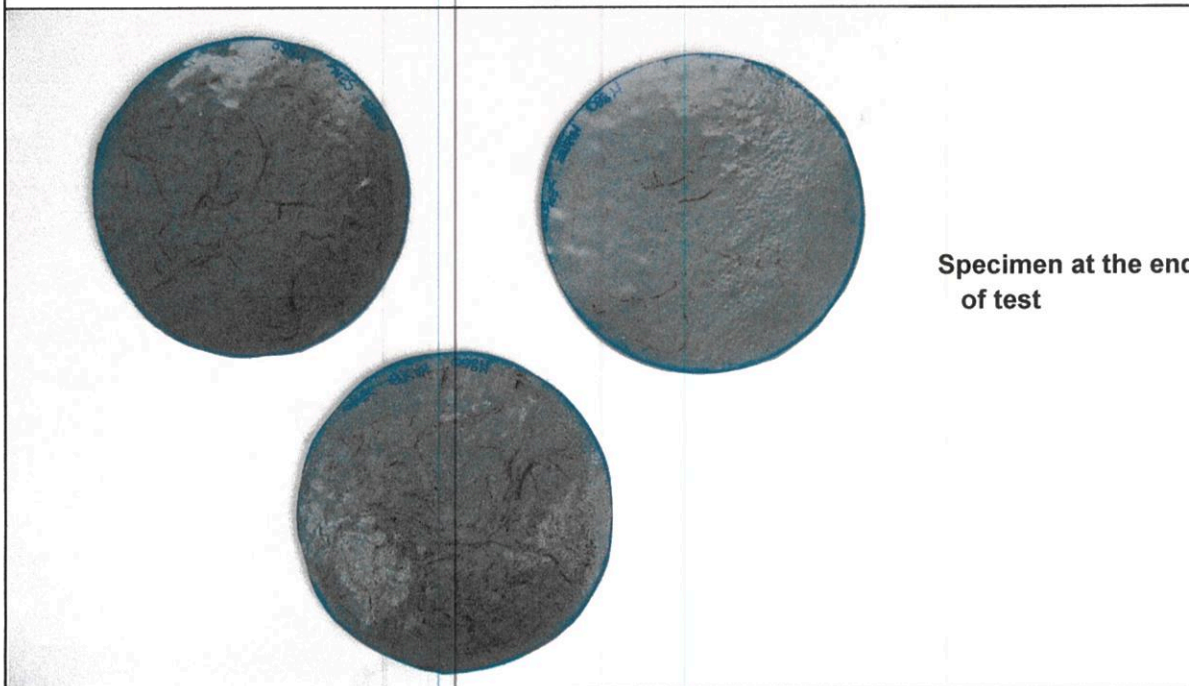
SAMPLE: MasterSeal M 860

WORK NUMBER: 15600/16

PROT. N. 36514/16 rev.0 of 22/11/16

TEST METHOD FOR DETERMINING THE RESISTANCE TO ROOTS - UNI CEN/TS 14416

Test N°	Test piece dimensions (mm)	Testing time (days)	Evalutation at the end of test
1	ø 220 x 4	42	The roots have not penetrated
2	ø 220 x 4	42	The roots have not penetrated
3	ø 220 x 4	42	The roots have not penetrated
4 - Control specimen in bitumen 85/40	ø 220 x 4	42	The roots have penetrated the bitumen



NOTE:

Test carried out on sample prepared by cutting from the mould .

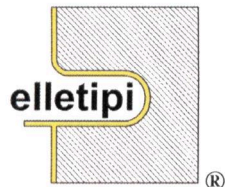
Date of testing: 07/10/16 -18/11/16

Internal code equipments used: 115 - 311.

Il Direttore del laboratorio tecnologico

m_TEC250 rev.0 del 05/14

Lo sperimentatore
Dott. Alessandro Marcolis
Sistema Qualità Elletipi Srl



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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: **BASF COATINGS GMBH**
ADDRESS: **Donnerschweer Str.372 - 26123 Oldenburg (Germany)**

SAMPLE: **MasterSeal Roof 2160**

WORK NUMBER: **14676/15**
PROT.N. **32427/16** **rev.0 of** **08/02/16**

Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Exposure of coatings to artificial weathering - UNI EN 1062 - 11

n.	Sample	Thickness (μm)	Substrate	Exposure time (hours)	Changes after the exposure time
1	MasterSeal Roof 2160	2000	fibre-cement	2000	no blistering, no cracking, no flaking Slight colour change (lightening) Slight yellowing
2	MasterSeal Roof 2160	2000	fibre-cement	2000	no blistering, no cracking, no flaking Slight colour change (lightening) Slight yellowing
3	MasterSeal Roof 2160	2000	fibre-cement	2000	no blistering, no cracking, no flaking Slight colour change (lightening) Slight yellowing
4	MasterSeal Roof 2160	2000	fibre-cement	2000	no blistering, no cracking, no flaking Slight colour change (lightening) Slight yellowing
5	MasterSeal Roof 2160	2000	fibre-cement	2000	no blistering, no cracking, no flaking Slight colour change (lightening) Slight yellowing

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269
Curing: according to UNI EN 12190 Annex A for mortars type PC.
Samples exposed to 2000 hours according to artificial ageing cycles
humidly and UV light in the QV meter as written in the
UNI EN 1062-11 point 4.2. Each cycle is composed by:

4 hours U.V.light at + 60°C

4 hours of condensation at + 50°C

Total exposure : 250 cycles for a total of 2000 hours

Dimensions of the samples 154 * 76,5 * 5 mm

Internal code equipments used : 115 - 381 - 774 - 999

Il Direttore del laboratorio tecnologico
p.i. Paolo Bet

Lo sperimentatore
p.i. Paolo Bet

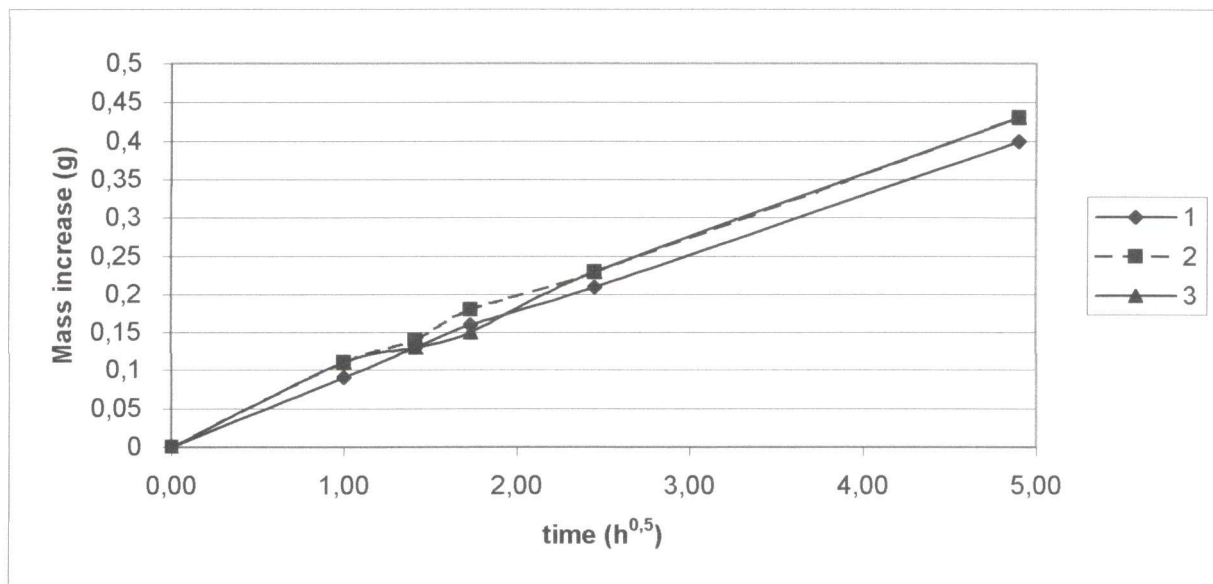
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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)
SAMPLE: MasterSeal Roof 2160

Work number: 14676/15
PROT. N. 32426/16 rev.0 of 08/02/16

**DETERMINATION AND CLASSIFICATION OF LIQUID WATER TRANSMISSION
RATE (PERMEABILITY) - UNI EN 1062 - 3**

Sample	Weight Starting point	Weight 1 hour	Weight 2 hours	Weight 3 hours	Weight 6 hours	Weight 24 hours	w
	(g)	(g)	(g)	(g)	(g)	(g)	(kg/(m ² x h ^{0,5}))
1	642,35	642,44	642,48	642,51	642,56	642,75	0,005
2	790,52	790,63	790,66	790,70	790,75	790,95	0,005
3	758,04	758,15	758,17	758,19	758,27	758,47	0,005



NOTE:

w stands for coefficient of liquid water permeability calculated at 24 hours.

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

Internal code equipments used: 109 - 796 -311 - 381 - 418 - 600

Il Direttore del laboratorio tecnologico
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Lo sperimentatore
dott.ssa M.Francesca Ibba



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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)

SAMPLE: MasterSeal Roof 2160

WORK NUMBER: 14676/15
PROT. N. 32425/16 rev.0 of 08/02/16

**DETERMINATION OF WATER-VAPOUR TRANSMISSION PROPERTIES - CUP METHOD
FOR SELF - SUPPORTING COATINGS - UNI EN ISO 7783 - 2012**

Sample	Thickness (microm)	Area (cm ²)	G (g/h)	V (g/(m ² *d))	Sd (m)	μ
1	2500	50,24	0,0003	1	14,55	5821
2	3100	50,24	0,0003	1	16,55	5339
3	3100	50,24	0,0003	1	16,74	5400
Average:			0,0003	1	15,95	5520

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269
Wet - cup method.

Conditioning: Method B UNI EN ISO 7783-2012 point 6.2.3

Curing: 7 days in air at 23 ± 2 °C and 50 ± 5% R.H..

Test conditions: 23° C , relative humidity 50-93%

Test area 0,005027 m²

G : rate of flow of water vapour.

V : water-vapour transmission rate

Sd : water-vapour diffusion-equivalent air layer thickness.

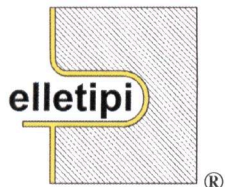
μ: water-vapour resistance factor.

Date of testing : 18/01 ÷ 04/02/16

Internal code equipments used: 311 - 350 - 959

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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)
SAMPLE: MasterSeal Roof 2160
Work number: 14676/15
PROT. N. 32424/16 rev.0 of 08/02/16

DETERMINATION OF PERMEABILITY TO CARBON DIOXIDE
UNI EN 1062 - 6 - Method A

Sample	n.	s (mm)	i (g/(m ² *d))	SD (m)	μ
MasterSeal Roof 2160	1	2,9	0,58	430	148240
MasterSeal Roof 2160	2	2,2	0,65	381	173032
MasterSeal Roof 2160	3	2,7	0,56	445	164907

NOTE:

s : thickness

i : permeability to carbon dioxide

SD : air equivalent thickness

μ : coefficient of diffusion to CO₂

Test area 0,005027 sqm

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

Start up test date : 16/11/15 ; End of test date: 24/12/15

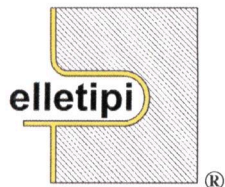
Internal code equipments used: 311 - 478 - 999

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CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)

SAMPLE: MasterSeal Roof 2160

Work number: 14676/15

PROT. N. 32423/16

rev.0 of

08/02/16

RAPID - DEFORMATION (IMPACT RESISTANCE) TESTS
PART 1 : FALLING WEIGHT TEST, LARGE-AREA INDENTER - UNI EN ISO 6272-1

N°	Thickness (mm)	Height (mm)	Visual inspection after the test	Test result
1	2000	400	NO DETERIORATION	Positive
2	2000	400	NO DETERIORATION	Positive
3	2000	400	NO DETERIORATION	Positive
4	2000	400	NO DETERIORATION	Positive
5	2000	400	NO DETERIORATION	Positive
1	2000	1000	CRACKS	Negative
2	2000	1000	CRACKS	Negative
3	2000	1000	CRACKS	Negative
4	2000	1000	CRACKS	Negative
5	2000	1000	CRACKS	Negative
1	2000	2000	CRACKS	Negative
2	2000	2000	CRACKS	Negative
3	2000	2000	CRACKS	Negative
4	2000	2000	CRACKS	Negative
5	2000	2000	CRACKS	Negative

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Mass of fall with spherical head diameter 20 millimeter and total mass of 1000 grams

Substrate: concrete slabs 30*30*10 cm MC(0,40) UNI EN 1766 .

Date of test: 04/02/16

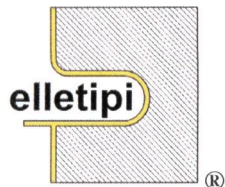
Internal code equipments used: 115 - 381 - 702

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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)

SAMPLE: MasterSeal Roof 2160

Work number: 14676/15
PROT. N. 32422/16 rev.0 of 08/02/16

Products and systems for the protection and repair of concrete structures - Test methods -
Determination of thermal compatibility -Part 1: Freeze-thaw cycling with de-icing salt immersion UNI EN 13687-1

N.	Dimensions (mm)	Thickness (mm)	n° of cycles performed	Surface alteration	PULL-OFF UNI EN 1542 (MPa)	Type of failure
1	300*300*100	2	none	-	3,43	B
2	300*300*100	2	50	none	2,94	B
3	300*300*100	2	50	none	3,00	B

NOTE:

A= substrate used: concrete slab type MC (0,40) according to UNI EN 1766.

B = MasterSeal Roof 2160 thickness 2 mm

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

Sample n.1 : reference one

Sample n.2 and 3 exposed to 50 cycled of freezing and thawing with de-icing salts

Solution used: saturated sodium chloride

Every 10 cycles and at the end of 50 visual inspection to find out
surface alteration as reported in the norm UNI EN13678-1.

After 50 cycles pull off test has been performed on samples 2, 3 and on reference one
according to UNI EN 1542.

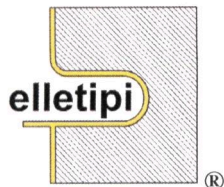
Internal code equipments used: 115 - 381 - 439 - 493 - 999 - 1146

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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)
SAMPLE: MasterSeal Roof 2160
Work number: 14676/15
PROT. N. 32421/16 rev.0 of 08/02/16

DETERMINATION OF THE ADHESION TO CONCRETE BY PULL - OFF TEST - UNI EN 1542

N.	Sample	Thickness (µm)	F (N)	D (mm)	f (MPa)	Type of failure
1	MasterSeal Roof 2160	2000	6500	50	3,31	B
2	MasterSeal Roof 2160	2000	6900	50	3,52	B
3	MasterSeal Roof 2160	2000	6800	50	3,46	B
4	MasterSeal Roof 2160	2000	6400	50	3,26	B
5	MasterSeal Roof 2160	2000	7100	50	3,62	B
Average:					3,43	

NOTE:

A= substrate used: concrete slab type MC (0,40) according to UNI EN 1766.

B = MasterSeal Roof 2160 thickness 2 mm

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

F = Ultimate load

D = diameter of the sample

f = adhesion

Dolly used: ø 50 * 20 mm

Bonding agent: 2K epoxy adhesive

Pull - Off Test Equipment: 0 - 16 kN (sensitivity 0,1 kN)

Internal code equipments used: 115 - 439

Il Direttore del laboratorio tecnologico
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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)
SAMPLE: MasterSeal Roof 2160
WORK NUMBER: 14676/15
PROT. N. 32420/16 rev.0 of 08/02/16

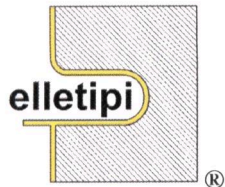
Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Determination of crack bridging properties - UNI EN 1062 - 7 (Method B Dynamic tensile test)						
Test conditions	Test n.	Dimensions (mm)	Thickness (µm)	Temperature (°C)	Cracking	Crack-bridging ability CLASS
Class B2 Wo = 0,15 mm Wu = 0,10 mm n= 1000 f = 0,03 Hz w = 0,05 mm	1	40*40*160	2000	23	none	B2
	2	40*40*160	2000	23	none	B2
	3	40*40*160	2000	23	none	B2
Class B 3.1 Wo = 0,30 mm Wu = 0,10 mm n= 1000 f = 0,03 Hz w = 0,20 mm	1	40*40*160	2000	23	none	B3.1
	2	40*40*160	2000	23	none	B3.1
	3	40*40*160	2000	23	none	B3.1
Class B 4.1 Wo = 0,50 mm Wu = 0,20 mm n= 1000 f = 0,03 Hz w = 0,30 mm	1	40*40*160	2000	23	none	B4.1
	2	40*40*160	2000	23	none	B4.1
	3	40*40*160	2000	23	none	B4.1
Class B 4.2 Wo = 0,50 mm Wu = 0,20 mm n= 20000 f = 1 Hz	1	40*40*160	2000	23	none	> B4.2
	2	40*40*160	2000	23	none	> B4.2
	3	40*40*160	2000	23	none	> B4.2

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269
Substrate: 4*4*16 cm EN 196-1 mortar prisms reinforced according to UNI EN 1062-7 point C.3.2
Method type B; test carried out according to UNI EN 1062-7 ANNEX B
First failure stands for crack width of the tested coating
Crack- bridging ability stands for the class of the tested coating according to UNI EN 1062-7.
Internal code equipments used: 115 - 381 - 752 - 999.

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p.i. Paolo Bet

Lo sperimentatore
p.i. Paolo Bet



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Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)

SAMPLE: MasterSeal Roof 2160

WORK NUMBER: 14676/15

PROT. N. 32419/16 rev.0 of 08/02/16

Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete -Determination of crack bridging properties- UNI EN 1062-7 (Method A static bending test)

N.	Dimensions (mm)	Thickness (µm)	Test temperature (°C)	First failure (µm)	Crack-bridging ability
1	300*200*40	2100	-10	none	A5 > 2500 µm
2	300*200*40	2100	-10	none	A5 > 2500 µm
3	300*200*40	2100	-10	none	A5 > 2500 µm

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

Substrate: concrete slabs UNI EN 1766 reinforced according to UNI EN1062-7 Point C.2.2

Method type A; test carried out according to UNI EN 1062-7 ANNEX A

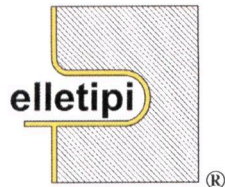
First failure stands for crack width of the tested coating

Crack- bridging ability stands for the class of the tested coating according to UNI EN 1062-7.

Internal code equipments used: 115 - 381 - 752 - 999.

Il Direttore del laboratorio tecnologico
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Lo sperimentatore
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Laboratorio Materiali da Costruzione autorizzato con Dec. n. 0000006 del 27/01/2015, art. 59 del D.P.R. 380/2001, Circolare Ministeriale 7617/STC
Laboratorio Geotecnico autorizzato con Dec. n. 6572 del 07/10/2014, art. 59 del D.P.R. 380/2001, Circolari Ministeriali 7618/STC
Organismo Notificato n° 1308 (DM 826149 del 22/03/2004 del Ministero delle Attività Produttive) rinnovata ai sensi della circ. 305/2011, DM 156/2003

CUSTOMER: BASF COATINGS GMBH
ADDRESS: Donnerschweer Str.372 - 26123 Oldenburg (Germany)

SAMPLE: MasterSeal Roof 2160

WORK NUMBER: 14676/15
PROT. N. 32418/16 rev.0 of 08/02/16

Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete -Determination of crack bridging properties- UNI EN 1062-7 (Method A static bending test)

N.	Dimensions (mm)	Thickness (µm)	Test temperature (°C)	First failure (µm)	Crack-bridging ability
1	300*200*40	2100	23	none	A5 > 2500 µm
2	300*200*40	2100	23	none	A5 > 2500 µm
3	300*200*40	2100	23	none	A5 > 2500 µm

NOTE:

Tests carried out on samples mixed in the laboratory according to the Technical Data Sheet of the system
MasterSeal Roof 2160 is composed by: MasterTop P617, MasterSeal M860, MasterSeal TC 269

Curing: according to UNI EN 12190 Annex A for mortars type PC.

Substrate: concrete slabs UNI EN 1766 reinforced according to UNI EN1062-7 Point C.2.2

Method type A; test carried out according to UNI EN 1062-7 ANNEX A

First failure stands for crack width of the tested coating

Crack- bridging ability stands for the class of the tested coating according to UNI EN 1062-7.

Internal code equipments used: 115 - 381 - 752 - 999.

Il Direttore del laboratorio tecnologico
p.i.

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