

Elastospray® 1623/2/AED

Page 1 / 8
Edition 12
Date 16.01.2017

Aplicatii:

Sistemul Elastospray 1623/2/AED a fost dezvoltat pentru realizarea lucrarilor de termo-hidroizolatii in-situ prin sprayere . Acest system a fost special formulat pentru a fi utilizat in aplicatii cu o cerinta mare de rezistenta la compresie (pardoseli,terase acoperisuri, etc...)

Scop utilizare: Termoizolarea cladirilor

Metoda de aplicare prin sprayere poate fi utilizta intr-o arie larga de aplicatii : cladiri, depozite frigorifice,depozite,tancuri de apa,silozuri, ferme agro-zootehnice, vapoare,ind auto,ind navala,ind aeronautica,etc

Pe langa calitatile excelente ca si material de izolatie, proprietatile mecanice ale sistemului Elastospray 1623/2/AED sunt atinse la o densitate relativ joasa.Aceasta tehnologie are urmatoarele avantaje:

- Excelente valori de rezistenta la compresie
- Elimina punctele termice,realizeaza o izolare continua,fara imbinari sau fisuri, chiar in locuri greu accesibile
- Excelenta aderența pe suport. Spuma sprayata Adera pe aproape orice tip de suport.fara a necesita utilizarea altor adezivi sau prinderi mecanice

Procedul de sprayere este perfect potrivit pentru izolarea unor suprafete mari, inclusive suprafete cu forme neregulate cum ar fi acoperisurile ondulate.

Culoarea portocalie a sistemului permite distingerea si identificarea clara fata de sistemele clasice de spuma poliuretanaica.

Caracteristici Chimice:

Component A: Elastospray 1623/2/AED *

Mixtura de polioli si aditivi (Catalizatori, Surfactanti si agenti de expandare*). Produsul nu contine HCFC.

* Ghid de reactivitate:


V= Vara, sub conditii calde de procesare (10 to 40°C)
I= Iarna, sub conditii reci de aplicare (5 to 35°C)

NOTA: Aria de temperature indicata reprezinta u ghid pt a alege cel mai potrivit produs

* Produsul contine fluorinated greenhouse gases conform normelor (EC) No 517/2014. Produsul Contine urmatoarele elemente: 1,1,1,3,3-Pentafluorobutane (HFC-365mfc); 1,1,1,2,3,3,3-Heptafluoropropane (HFC-227ea); Propane, 1,1,1,3,3-pentafluoro- (HFC-245fa).

Component B: IsoPMDI 92140

MDI (diphenylmethane diisocyanate)

Marca :

Sistemele de spuma sunt certificate.AENOR Aceata Certificare indica faptul ca Performanta produsului Este in Conformitate cu Standardul EN 14315-1. Marcajul AENOR intareste aceasta certificare conform Conditiiilor stipulate in contractul 020/000207 si al Regulamentului General pt produse si servicii certificate – AENOR brand si regulamentul Particular RP 020.05



Ambalarea:

Ambalarea se face: Polyol-la butoaie metalice de 240kg/IsoPMDI 92140-la butoaie de 250kg.

Elastospray 1623/2/AED



Page 2/8
Edition 12
Date 16.01.2017

Depozitare/Procesare:

Componentele poliuretanicе sunt sensibile la umiditate. Acestea trebuie pastrate tot timpul in ambalajul original, inchise etans.
A-component (Polyol) trebuie omogenizat prin amestecare inaintea procesarii before processing.
Comp A si Comp B trebuie depozitate la o temperatura de 15-25C. Recomandam evitarea deversarii in mediul acvatic.
Pentru procesare urmariti instructiunile furnizate de consilierii nostrii tehnici.

Potentiale riscuri:

B-component (Isocyanate) irita ochii, caile respiratorii si pielea. Sensibilizarea este posibila prin inhalare si contactul cu pielea MDI este daunator la inhalare. Pe durata procesarii trebuie luate masuri de protective descrise in Material Safety Data Sheets (MSDS). Aceleasi masuri trebuie luate si la utilizarea A-component (Polyol) cat si a altor componente.

See also our separate information sheet "Safety- and Precautionary Measures for the Processing of Polyurethane Systems. Use our Training Program "Safe Handling of Isocyanate."

Eliminarea deseurilor:

Conform legislatiei in vigoare a fiecarei tari.

Articole de consum/Produse medicale:

Exista legi si regulamente, nationale si internationale care sa ia in considerare daca acest produs e destinat pt producerea art de consum (ex articole ce necesita contactul cu alimente, jucarii, piele etc.) sau obiecte medicale altele decat produsele BASF. Unde acestea nu exista, actualele cerinte ale Uniunii Europene pentru articole de consum cat si medicale sunt suficiente. Consultarea cu Elastogran Sale Office Dep si Dep de Ecologie si Siguranta produselor este puternic recomandata.

Instructiuni de manipulare si aplicare:

Vizionati "Guide for the Application of Elastospray systems".

Elastospray 1623/2/AED



Page 3/8
Edition 12
Date 16.01.2017

| Component data: | | | | |
|--|-------------------|---------|---------|----------|
| Urmatoarele proprietati au fost obtinute la temperatura de 25 °C and corespund valorilor tipice. | | | | |
| Proprietati | Unit | Comp. A | Comp. B | Metoda |
| Viscozitate at 25°C | mPa.s | 225 | 220 | G133-07* |
| Densitate at 25°C | g/cm ³ | 1,18 | 1,23 | G133-08* |
| Valoarea OH | mgKOH/g | 300 | - | G133-01* |
| Continutul NCO | %, greutate | - | 31,5 | G133-06* |
| Valabilitate | Luni | 3 | 6 | |

* BASF methods

| Date de Control ale Polyol Component (A): | | | | |
|---|-----------|-----------------------------|-----------------------------|----------|
| Proprietati | Unit | Elastospray 1623/2/AED V | Elastospray 1623/2/AED I | Metoda |
| Continut de apa | %, weight | 1,75 ± 0,10 | | G133-03* |
| Valoarea OH | mgKOH/g | 300 ± 20 | | G133-01* |

* BASF methods

| Date de Control ale Isocyanate Component (B): | | | | |
|---|-------------|-----------------------------|-----------------------------|----------|
| Proprietati | Unit | Elastospray 1623/2/AED V | Elastospray 1623/2/AED I | Metoda |
| NCO Content | %, greutate | 31,5 ± 1,0 | | G133-03* |

* BASF methods

| Reaction Profile and Free Rise Density: (componentele la 23 ± 2 °C si ratia de amestec indicata) | | | | |
|--|-------------------|-----------------------------|-----------------------------|----------|
| Proprietati | Unit | Elastospray 1623/2/AED V | Elastospray 1623/2/AED I | Metoda |
| Ratia de amestec (greutate) | | 100:104 ± 2 | 100:104 ± 2 | G132-01* |
| Cream Time (CT) | s | 4±1 | 4±1 | G132-01* |
| Gel time (GT) | s | 8±2 | 7±2 | G132-01* |
| Tack Free Time (TFT) | s | 9±2 | 8±2 | G132-01* |
| Beaker Free Rise Density (FRB) | kg/m ³ | 37,0 ± 3,0 | 37,0 ± 3,0 | G132-01* |

*Metodele BASF sunt in conformitate cu metodele din standardul EN 14315-1

Elastospray 1623/2/AED



Page 4/8
Edition 08
Date 14.01.2015

Procesarea:

Procedeul de sprayere consta in proiectarea pulverizata a mixturii celor doua componente,pe suprafata care trebuie izolata. Mixtura reactioneaza pe suprafata, adera instantaneu la aceasta si expandeaza intr-o spuma rigida .

Urmatoarele conditii trebuie sa fie indeplinite pentru o aplicare corecta a sistemului:

| | | Elastospray 1623/2/AED V | Elastospray 1623/2/AED I |
|-----------------------------------|--|--------------------------|--------------------------|
| Conditiiile utilajului | | | |
| Ratia de amestec a Componentelor: | | 1:1 (volume) | |
| Temperatura Comopentelor: | | 30 – 50 °C | |
| Presiunea Componentelor: | | 50 – 80 Bar | |
| Conditiiile de Mediu(ambientale) | | | |
| Temperatura ambientala | | Intre +10 and +40 °C | Intre +5 and +35 °C |
| Umiditatea Relativa: | | < 85 % | |
| Viteza vantului: | | □ 30 km/h | |
| Conditiiile Suportului | | | |
| Temperatura Suportului: | | Intre +10 and +40 °C | Intre +5 and +35 °C |
| Umiditatea Suportului: | | □ 20 % | |
| Suport poros | | Fara condens pe suport | |
| Suport neporos | | | |

Grosimea fiecarui strat aplicat trebuie sa fie intre 1 si 4 cm. Pentru a obtine stabilitatea dimensionala adecvata,NU se recomanda aplicarea unor straturi mai groase

Distanța de la pistolul de pulverizare la suport se recomanda a fi de approx. 80 cm.

Suporturi potrivite:

In conditii meteo favorabile, spuma poliuretanică rigida Elastospray are o buna aderenta pe majoritatea materialelor de constructii (beton, caramida,BCA,BCU, lemn, metal). Suportul trebuie sa fie curat,uscat,fara praf sau grasimi,iar in cazul unui suport metalic.acesta sa fie fara rugina.

Daca exista problem de aderenta ,suportul trebuie tratat in prealabil cu primerul adecvat
Datorita utilizarii unei largi game de suporturi si grunduri in constructii nu este posibil a garanta o aderenta perfecta. Se recomanda,prin urmare,testarea aderenței in fiecare caz.

Elastospray 1623/2/AED



Page 5/8
Edition 12
Date 16.01.2017

CE Marking:



1168
1722

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14

DoP-No.: ES19-0002-02-CPR-14
www.elastospray.eu/dop

EN 14315-1:2013

In-situ formed sprayed rigid polyurethane (PU) foam system

ThIB – Thermal Insulation for Buildings

Reaction to fire – E (valid for all thicknesses)

Thermal conductivity: see performance chart

Water permeability (expressed as short term water absorption by partial immersion): max. 0,20 kg/m²

Water vapour transmission (expressed as water vapour resistance factor μ): 80

Compressive strength: min. 300 kPa

Continuous glowing combustion: no harmonized test method available

Durability of reaction to fire against ageing/degradation: reaction to fire does not decrease with time

Durability of thermal resistance against ageing/degradation: see performance chart

Durability of compressive strength against ageing/degradation: compressive strength does not decrease with time

Designation code:

Elastospray 1623/2/AEDI: PU EN 14315-1-CCC4-CT4(23)-GT7(23)-TFT8(23)-FRB37(23)-W0,2-CS(10\Y)300-CC(3/2,5/10)90-MU80

Elastospray 1623/2/AEDV: PU EN 14315-1-CCC4-CT4(23)-GT8(23)-TFT9(23)-FRB37(23)-W0,2-CS(10\Y)300-CC(3/2,5/10)90-MU80

Elastospray 1623/2/AED



Page 6/8
Edition 12
Date 16.01.2017

Performance Chart:
(in accordance with EN 14315-1):

| Type of facing: None or diffusion open | | |
|--|---|---|
| Grosime | Declared aged thermal conductivity (λ_D) W/m·K | Thermal resistance level (R_D) $m^2 \cdot K/W$ |
| 30 mm | 0,028 | 1,05 |
| 35 mm | 0,028 | 1,25 |
| 40 mm | 0,028 | 1,40 |
| 45 mm | 0,028 | 1,60 |
| 50 mm | 0,028 | 1,80 |
| 55 mm | 0,028 | 1,95 |
| 60 mm | 0,028 | 2,15 |
| 65 mm | 0,028 | 2,30 |
| 70 mm | 0,028 | 2,50 |
| 75 mm | 0,028 | 2,70 |
| 80 mm | 0,027 | 3,00 |
| 85 mm | 0,027 | 3,20 |
| 90 mm | 0,027 | 3,40 |
| 95 mm | 0,027 | 3,55 |
| 100 mm | 0,027 | 3,75 |
| 105 mm | 0,027 | 3,95 |
| 110 mm | 0,027 | 4,15 |
| 115 mm | 0,027 | 4,30 |


| Type of facing: None or diffusion open | | |
|--|---|---|
| Grosime | Declared aged thermal conductivity (λ_D) W/m·K | Thermal resistance level (R_D) $m^2 \cdot K/W$ |
| 120 mm | 0,026 | 4,70 |
| 125 mm | 0,026 | 4,90 |
| 130 mm | 0,026 | 5,10 |
| 135 mm | 0,026 | 5,30 |
| 140 mm | 0,026 | 5,45 |
| 145 mm | 0,026 | 5,65 |
| 150 mm | 0,026 | 5,85 |
| 155 mm | 0,026 | 6,05 |
| 160 mm | 0,026 | 6,25 |
| 165 mm | 0,026 | 6,45 |
| 170 mm | 0,026 | 6,65 |
| 175 mm | 0,026 | 6,85 |
| 180 mm | 0,026 | 7,05 |
| 185 mm | 0,026 | 7,25 |
| 190 mm | 0,026 | 7,45 |
| 195 mm | 0,026 | 7,65 |
| 200 mm | 0,026 | 7,85 |

Declared aged thermal conductivity value (λ_D) at 10 °C calculated with statistical procedure 90/90 and rounded upwards to the nearest 0,001 W/m·K.
Thermal resistance value (R_D) calculated with aged thermal conductivity at 10 °C and rounded downwards to the nearest 0,05 m K / W.

Elastospray 1623/2/AED

Page 7/8
Edition 12
Date 16.01.2017



Proprietatile Fizice ale spumei declarate in the CE Marking and Marca 

Expandarea spumei se face prin actiunea HFC si CO2 (prin reactia chimica intre apa si isocyanate , astfel incat proportia de HFC gases inauuntrul celulelor inchise,initial este >30% .

| Proprietati | Elastospray 1623/2/AED | Unit | Standard |
|---|-----------------------------|------------------------|------------------------|
| DENSITATE | 50 | kg/m ³ | EN 1602 |
| Rezistenta la Vaporii de apa- factor (μ) | □ 80 | - | EN 12086 |
| Continut de cellule inchise | > 90 | % | ISO 4590 |
| Rezistenta la compresie (10% deformare) | □ 340 | kPa | EN 826 |
| Compressive creep Stress Compressive creep Reducere totala a grosimii Extrapolare | 90 ≤ 2,5 ≤ 3,0 10 | kPa % % years | EN 1606 |
| Conductivitatea Termica at 10°C Val la imbatranire | Vezi Tabelul de performanta | W/(m□K) | EN 14315-1 |
| Reactia la Foc (naked foam-spuma neprotejata) | Class E Class B2 | - | EN 13501-1 DIN 4102 |

Additional Foam Physical Properties:

| Proprietati | Elastospray 1623/2/AED | Unit | Standard |
|---|-------------------------|----------------------------|----------------------------|
| Culoare | Orange | - | VIZUAL |
| Absorbtia de apa pe termen lung Imersie totala Imersie partiala | <2 < 0,20 | % vol kg/m ² | EN 12087-1B EN 12087-2B |
| Permeabilitate Test Coloana de apa(60 kPa) | Fara infiltratii de apa | - | EN 1928 |

Elastospray 1623/2/AED

Page 8/8
Edition 12
Date 16.01.2017



Complementary Information:

- Guide for the application of Elastospray Systems.

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