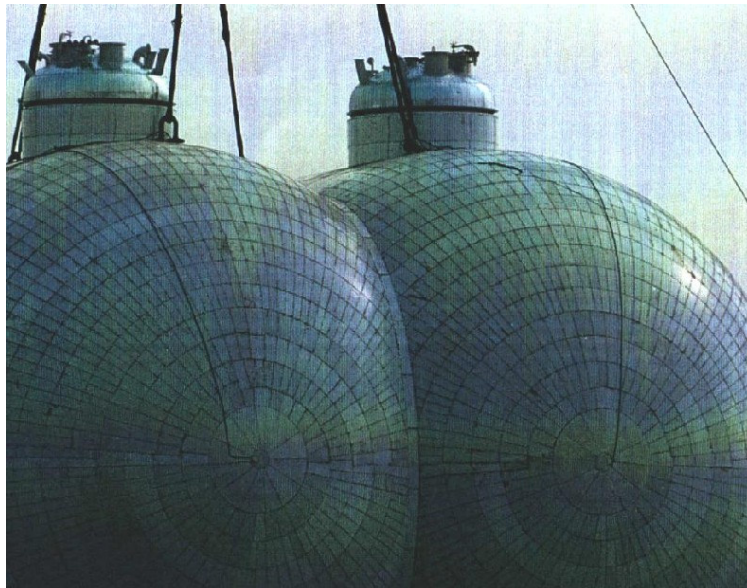




Kestopur - PL240



**Solvent-free, two-component
polyurethane adhesive.**





KESTOPUR PL 240

Kestopur PL 240 is a solvent-free, two-component polyurethane adhesive which forms a very strong but still elastic adhesive joint. Kestopur PL 240 can be applied manually using e.g. an appropriate trowel.

Kestopur 200/S diisocyanate hardener is used in combination with Kestopur PL 240. The adhesive is fire classified according to IMO FTPC (IMO resolution MSC. 61(67) Part 2 and 5). Kestopur PL 240 can be used in glueing e.g. wood and plywood, various metals, various insulation materials, PVC, PS, glass, GRP and concrete.

Technical data *

Specific gravity	Ca. 1.60 kg/dm ³ (resin), ca. 1.20 kg/dm ³ (hardener)	
Colour	Beige	
Solids content	100 %	
Viscosity (mixing ratio 5:1)	1 500 000 mPas (Brookfield RVT, 20 °C)	
Shore D hardness	55	
Max. elongation	10 %	
Tensile strength	8 N/mm ²	
Tensile shear strength	Aluminium	7 N/mm ² (+20 °C) 12 N/mm ² (-20 °C) 13 N/mm ² (-190 °C)
Pot life (of 120 g of mixture)	60 min (20 °C, 50 % RH)	
Working time	Max. 1½ h after adding the hardener	
Service temperature	-196 °C to +93 °C	
Application methods	Manual application	
Coverage	1,5 to 2,0 kg/m ² depending on the materials	
Pressing time	6½ h / 20 °C	
Package sizes	3.5 kg, 11 kg	

*the values shown above are meant for guidance only and thus they can not be considered a material specification

Mixing ratio

5 parts Kestopur PL 240 resin + 1 part Kestopur 200/S hardener (measured by weight)

Instructions for use

Always apply the adhesive on clean and dry surfaces. If necessary, remove the grease and oil as well as oxidised substances from the surfaces. Stir the resin properly and add the hardener together with a careful but thorough mixing. Apply the mixture e.g. with a trowel to one or both of the surfaces to be joined. Remove the fresh adhesive residue with a dry piece of cloth and clean the surfaces with acetone or xylene. The cured adhesive can only be mechanically removed. We strongly recommend to use Kestopur adhesives at a room temperature. The glueing can even be carried out at lower temperatures (as long as higher than +5 °C) but the curing time may be significantly extended and application becomes more difficult due to higher viscosity.

Health and safety

The resin is not health hazardous. Appropriate protective gloves are to be used when handling the hardener. Appropriate breathing mask is to be used and a good ventilation arranged when the adhesive is applied by spraying or when the temperature exceeds +40 °C. Small amounts of components can be mixed using the correct mixing ratio and subsequently delivered to a dump pit. Larger amounts are to be delivered to an appropriate waste treatment plant. Please see a separate MSDS for details.

Storage

Kestopur resin and hardener should be stored in a cool, dark place tightly closed at +10 > +25 °C. The maximum storage time in the original, unopened containers is 12 months after date of supply.

Date 4.9.2015

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**
KESTOPUR PL 240
- 1.1.2 Product code**
T1715
- 1.1.3 REACH Registration Number**
Not applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- 1.2.1 Recommended use**
Industrial use ; Binding agents
Solvent-free two-part polyurethane adhesive (part 1)
- 1.3 Details of the supplier of the safety data sheet**
- 1.3.1 Supplier**
Temati BV
- P.O.Box** 1005
Postcode and post office 1940EA Beverwijk
The Netherlands
- Telephone** +31 (0)251 22 91 72
Telefax +31 (0)251 21 23 80
Email temati@temati.com
- 1.4 Emergency telephone number**

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
Not classified
GHS (1272/2008)
Not classified
EY (67/548/ETY, 1999/45/EY)
Not classified
- 2.2 Label elements**
not required
- 2.3 Other hazards**
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components CAS/EC and Reg. number	Chemical name of the substance	Concentration Classification
-	-	-

Other information
The product is not classified as a dangerous.

4. FIRST AID MEASURES

- 4.1 Description of first aid measures**
No hazards which require special first aid measures.

Date 4.9.2015

Previous date: -

Inhalation

Move to fresh air.

Skin contact

Wash off with warm water and soap.

Eye contact

Rinse immediately with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.3 Indication of immediate medical attention and special treatment needed

None.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

The product is not flammable.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

See chapter 8

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

See chapter 8

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Stable under recommended storage conditions.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place.

7.3 Specific end use(s)

None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Other information on limit values

None.

DNELs

No information available.

PNECs

No information available.

8.2 Exposure controls

KESTOPUR PL 240

Date 4.9.2015

Previous date: -

Appropriate engineering controls

Provide sufficient air exchange and/or exhaust in work rooms.

Wash hands before breaks and at the end of workday. When using do not eat or drink.

Individual protection measures**Respiratory protection**

During spraying respirator protection, type A2/P2, is to be used, also if the temperature rises over 40°C.

Hand protection

Rubber or plastic gloves

Protective gloves complying with EN 374.

Eye/face protection

Safety glasses

Skin protection

impervious clothing

Environmental exposure controls

The product is not classified hazardous to the environment

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	viscous blend
Odour	odourless
Odour threshold	Not applicable
pH	Not applicable
Melting point/freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	The product is not flammable.
Explosive properties	
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	approx. 1,6 kg/dm ³
Solubility(ies)	
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	-
Explosive properties	Not classified
Oxidising properties	Not classified
Other information	

For further information, refer to the product technical data sheet.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

Reacts with isocyanates

10.2 Chemical stability

Stable under normal conditions.

KESTOPUR PL 240

Date 4.9.2015

Previous date: -

- 10.3 Possibility of hazardous reactions**
None.
- 10.4 Conditions to avoid**
Protect from moisture.
- 10.5 Incompatible materials**
None.
- 10.6 Hazardous decomposition products**
None.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

not determined

Irritation and corrosion

Not classified

Sensitisation

Resin component is not health hazardous. When handling hardener protective gloves must be worn.

Subacute, subchronic and prolonged toxicity

None known.

STOT-single exposure

None known.

STOT-repeated exposure

None known.

Aspiration hazard

No aspiration toxicity classification

12. ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity**

The product is not classified hazardous to the environment

12.2 Persistence and degradability**Biodegradability**

None known.

Chemical degradation

None known.

12.3 Bioaccumulative potential

None known.

12.4 Mobility in soil

None known.

12.5 Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

The product is not classified hazardous to the environment

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

KESTOPUR PL 240

Date 4.9.2015

Previous date: -

Liquid waste must be handled in accordance with the waste management plan given by the municipal waste management authority.

Hardened 2-component product can be taken to landfill with other municipal waste; resin and hardener residue must be mixed according to the instructions and let harden.

Hardener is harmful and residue must be taken to a municipal hazardous waste collection point.

Resin smallpackings/metal are made of tinned steel sheet. Empty resin packings must be taken to metal recycling or, if recycling is not arranged, to landfill.

Resinbarrels are made of steel sheet. Emptied barrels can be taken to be repaired, to recycling or return to Kiilto Oy, if agreed with Kiilto Oy.

EWC- waste code 080409 - waste adhesives and sealants containing organic solvents or other dangerous substance.

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards	None.	None.
Other information	Protect from moisture.	Protect from moisture.

14.6 Special precautions for users

None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product is not classified as a dangerous.

-

15.2 Chemical safety assessment

Not applicable

16. OTHER INFORMATION**Key literature references and sources for data**

Laws and information from the manufacturer of the raw materials, Sax's "Dangerous Properties of Industrial Materials."

Classification procedure

according to Regulation (EC) No. 1907/2006

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

KESTOPUR PL 240

Date 4.9.2015

Previous date: -

Training advice

No guideline required

Supplemental information

Product safety department

KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

KESTOPUR 200/S hardener

1.1.2 Product code

T2134

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Hardener

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Temati BV

P.O.Box

1005

Postcode and post office

1940EA Beverwijk

The Netherlands

Telephone

+31 (0)251 22 91 72

Telefax

+31 (0)251 21 23 80

Email

temati@temati.com

1.4 Emergency telephone number**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Carc. 2, H351

Acute Tox. 4, H332

STOT RE 2, H373

Eye Irrit. 2, H319

STOT SE 3, H335

Skin Irrit. 2, H315

Resp. Sens. 1, H334

Skin Sens. 1, H317

2.2 Label elements**1272/2008 (CLP)**

GHS08 - GHS07

Signal word

Danger**Hazard Statements**

H351

Suspected of causing cancer

H332

Harmful if inhaled.

H373

May cause damage to organs through prolonged or repeated exposure if inhaled.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

H315

Causes skin irritation.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317

May cause an allergic skin reaction.

Precautionary Statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P285

In case of inadequate ventilation wear respiratory protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P501 Content/container must be disposed as hazardous waste.
P102 Keep out of reach of children.

2.3 Other hazards

Contains isocyanates. See information supplied by the manufacturer.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

CAS/EC and Reg. number	Chemical name of the substance	Concentration	Classification
9016-87-9	Diphenylmethane-diisocyanate, isomeres and homologues	>25%	Carc. 2, H351; Acute Tox. 4, H332; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317

Other information

PC32 - Polymer preparations and compounds

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

Remove and wash contaminated clothing before re-use.

Inhalation

Move to fresh air. Keep warm and in a quiet place. Oxygen or artificial respiration if needed.

Skin contact

Wash off with warm water and soap.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Ingestion

Take victim immediately to hospital. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Acute exposure. Irritating to eyes and skin. Concentration above the admissible concentration at the workplace may cause dizziness, headache and inebriation.

4.3 Indication of immediate medical attention and special treatment needed

Burning produces noxious and toxic fumes.

Keep under medical supervision for at least 48 hours.

Symptoms may be delayed.

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****5.2 Special hazards arising from the substance or mixture**

Burning produces noxious and toxic fumes.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

See also section 8

6.2 Environmental precautions

Prevent product from entering drains.

KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Mixture reacts slowly with water resulting in evolution of CO₂. Do not seal containers hermetically.

6.4 Reference to other sections
See chapter 1, 8, 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Wear suitable protective clothing and gloves.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. No special storage conditions required.

7.3 Specific end use(s)
This information is not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Threshold limits**

9016-87-9	Diphenylmethane-diisocyanate, isomeres and homologues	0,035 mg/m ³ (15 min)
		NCO

Other information on limit values

-

Limit values in other countries

-

DNELs

This information is not available.

PNECs

This information is not available.

8.2 Exposure controls**Appropriate engineering controls**

Provide adequate ventilation. When sprayed, fresh air supply mask must be used if adequate ventilation can not be arranged. Wash hands before breaks and at the end of workday.

Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures**Respiratory protection**

When sprayed, fresh air supply mask must be used if adequate ventilation can not be arranged.

Hand protection

Rubber or plastic gloves

Protective gloves complying with EN 374.

Eye/face protection

Safety glasses

Skin protection

impervious clothing

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance liquid, dark brown

Odour musty

Odour threshold This information is not available.

pH Not applicable

KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

Melting point/freezing point	This information is not available.
Initial boiling point and boiling range	This information is not available.
Flash point	open cup; 230 °C
Evaporation rate	This information is not available.
Flammability (solid, gas)	Not applicable
Explosive properties	
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	< 0.0001 hPa / 25 °C
Vapour density	8,5
Relative density	approx. 1,23 kg/dm ³ 25 °C
Solubility(ies)	
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	This information is not available.
Decomposition temperature	This information is not available.
Viscosity	approx. 100 - 800 mPa s
Explosive properties	Not relevant
Oxidising properties	Not relevant

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
Reacts violently with water.
- 10.2 Chemical stability**
-
- 10.3 Possibility of hazardous reactions**
As effect of humidity and water, CO₂ is formed, causing overpressure in closed space.
- 10.4 Conditions to avoid**
Decompose by heating begins at a temperature of 150 °C, polymerises with risk of fire and explosion.
- 10.5 Incompatible materials**
Water , Alcohols , Amines , Acids and bases
- 10.6 Hazardous decomposition products**
Under fire conditions: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- Acute toxicity**
>10000 mg/kg LD50/oral/rat =
Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Symptoms may be delayed.
- Irritation and corrosion**
Irritating to eyes, respiratory system and skin.
- Sensitisation**
May cause sensitization by inhalation and skin contact.
- Subacute, subchronic and prolonged toxicity**
OECD435; two-year ; 5 days/week; rat. Result positive ; Target Organs Lungs .
- STOT-single exposure**
Class 3 , H335; May cause respiratory irritation.

KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

STOT-repeated exposure

Class 2 , H373; H373 - May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard

No aspiration toxicity classification

Other information on acute toxicity

-

12. ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity**mg/l / 24 hours / Daphnia magna (Water flea), LC₀ = >1000 mg/l / 96 hours / fish (Brachydanio rerio)CAS 9016-87-9 Diphenylmethane-diisocyanate, isomeres and homologues : EC₅₀ = >1000 mg/l / 24 h /Daphnia = , LC₀ = >1000 mg/l / 96 h / fish<KALAHAIT (Brachydanio rerio)**Toxicity to other organisms**

-

12.2 Persistence and degradability**Biodegradability**

OECD302C; Number of days of exposure 28; Result 0%.

CAS 9016-87-9 Diphenylmethane-diisocyanate, isomeres and homologues : BOD₂₈ 0 % TOD**Chemical degradation**

-

12.3 Bioaccumulative potential

Bioconcentration factor (BCF) =200 ;

12.4 Mobility in soil

This information is not available.

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Slightly hazardous to aquatic organisms. WGK: 1 (WGK = Waterdangerousnessclass in Germany).

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Fresh product** must be forwarded to a local hazardous waste disposal collection point or plant.**Empty packaging waste** must be forwarded to a local hazardous waste disposal collection point or plant.**EWC waste code 080501** - waste isocyanates**14. TRANSPORT INFORMATION**

KESTOPUR 200/S hardener

Date 4.9.2015

Previous date: 20.6.2013

	Land transport ADR/RID	Sea transport IMDG/IMO
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards		
Other information	Protect from frost.	Protect from frost.

14.6 Special precautions for users

This information is not available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not applicable

15.2 Chemical safety assessment

This information is not available.

16. OTHER INFORMATION**Additions, Deletions, Revisions**

Classified using all GHS hazard classes and categories.

Key literature references and sources for data

_Laws, information from the manufacture of the raw materials and Sax's "Dangerous Properties of Industrial Materials."

Classification procedure

Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP)

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**Training advice**

Provide adequate information, instruction and training for operators.



30-45 Foamseal®

Colour

Grey

Application Consistency

Trowel, or power extrusion

Average Weight/ U.S. Gallon (ASTM D 1475)

12 lbs (1.45 kg/l)

Average Non-Volatile (ASTM D 2369)

98% by volume (99% by weight)

Coverage Range (FSTM 72)

Trowel:

12 to 25 sq. ft./gal. (0.29 to 0.61 m²/l) 1/8 in. to 1/16 in. wet film

thickness (1.6 mm to 3.2 mm)

Drying Time

73°F (23°C) 50% RH (ASTM D 1640)

Touch: 24 hours

Full Set: 7 days

Service Temperature Limits (FSTM 70)

(Temperature at coated surface)

Minus 100°F to 300°F (-73°C to 149°C) Temperature limits apply for horizontal joints.

Water Vapour Permeability (ASTM E 96)

0.008 perm-inch (0.013 metric perm-cm). The water vapour transmission through 1 inch of impermeable insulation in 12 in. X 18 in. blocks with 1/8 in. joints of 30-45 is too small to measure.

Wet Flammability (ASTM D 3278)

No flash to boiling, 200°F (93°C)

Combustibility (dry) (FSTM 44)

Combustible. Flame spread and fuel contribution negligible when used as sealant in 1/8 in. (3.2 mm) wide joints of incombustible insulation.

Foster Foamseal Sealant is a grey vapour barrier sealant designed for use with rigid thermal insulation including polystyrene foam. It remains flexible and tough in joints and will not shrink or crack during repeated cycles of high and low temperatures.

Foamseal Sealant seals the joints of cellular glass and other insulations against the entrance of moisture. When used as a bedding compound and joint sealant, 30-45 provides additional protection to the blocks of insulation and protects metal equipment against corrosion. Damage to the insulation due to migration of moisture is minimized.

Foamseal Sealant is water and weather resistant and is often used as a sealant and flashing compound where structural parts must penetrate an insulation surface.

Foamseal Sealant contains no asbestos, lead, mercury, or mercury compounds.

Limitations

Store between 40°F (4°C) and 100°F (38°C).

Apply between 50°F and 110°F (10°C and 43°C).

Allow to cure one week before placing in heated service.

Not suggested for use under solvent base elastomeric mastics and coatings, if minor surface discolouration and/or dirt pick-up would be objectionable.

Decolourization can be minimized by allowing 24 to 48 hours cure time before top coating.

Make certain this product is completely dry and the area free from product odour if food is involved.

® Trademark of Foster Products Corporation

FSTM: Foster Standard Test Method



FOSTER FOAMSEAL® SEALANT 30-45

Material Preparation

DO NOT THIN. Apply only to clean dry surfaces. Keep container closed when not in use.

Application

Apply by trowel, putty knife, power extrusion or caulking gun. When sealing insulation joints apply Foamseal Sealant at 1/16 to 1/8 inch wet film thickness (1.6 to 3.2 mm) and press mating surfaces together firmly to squeeze out air bubbles and to obtain complete contact. When flashing, do not trowel out to feather edge but maintain a minimum of 1/8 inch wet film thickness (3.2 mm) throughout the entire area of use. Use membrane as specified. For best results, allow to cure 24-48 hours before top coating with solvent-based elastomeric mastics or coatings.

Power Extrusion

Foamseal Sealant may be applied using a wide variety of power (pressure) extrusion equipment suitable for use with oil base sealants. Typical viscosity range: 0.5 – 1.0 million cps.

Clean-Up

Clean tools and equipment with mineral spirits (flammable) or chlorinated solvent (non-flammable).

For industrial use only.

This data sheet is based on specifications, data and test results available to us at the time of publication. In the course of time changes herein may (have) take(n) place. The above tests were carried out in accordance with the above mentioned internal test standards and are indicative. No guarantee as to completeness, accuracy or results is either expressed or implied. The suitability to an intended use is the responsibility of the user. As material-choice, method of application and site conditions are beyond our control, we accept no liability for direct or consequential damages; our only obligation being to resupply ex our stores any material that is proved to be defective within the published* shelf life.

* If not applicable, within 6 months from date of supply.

Safety data sheet
according to 1907/2006/EC, Article 31

date 09.01.2021

Version number 16Printing

Revision: 29.11.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: FOSTER 30-45**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Temati B.V.
Rijnland 2
NL-1948 RL Beverwijk
Tel: +31 251 229 172
Fax: +31 251 212 380
E-mail: temati@temati.com
- **Further information obtainable from:** Product safety Department
- **1.4 Emergency telephone number:** Tel: +31 251 229 172 (mo-fr/9-17)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
EUH208 Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with additions.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

GB

(Contd. on page 2)

Safety data sheet
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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
No special measures required.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **CAS No. Designation of material % Type Value Unit** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**
Not required.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Recommended thickness of the material: $\geq 0,12$ mm

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Viscous

Colour: Grey

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value At 20 °C:** 7.0

- **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: >250 °C

- **Flash point:** 190 °C (DIN 53213)

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** > 320 °C

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: 1.0 Vol %

Upper: 10.0 Vol %

- **Vapour pressure:** Not determined.

- **Density At 20 °C:** 1.45 g/cm³ (DIN 51757)

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

- **Solvent content:**

Organic solvents: $\leq 0,7$ %

Water: 0,3 %

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Solids content:	96.5 % (DIN 53216)
· 9.2 Other information	No further relevant information available.
· VOC (EU):	≤0.65 %
· VOC (EU):	≤9.5 g/l
· VOCV:	≤0.15 %

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** None
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	>172 mg/l (RAT)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Smaller quantities can be disposed of with household waste.

· European waste catalogue

08 01 12 waste paint and varnish other than those mentioned in 08 01 11

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR/RID/ADN, ADN, IMDG, IATA

· Class Void

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Not applicable.

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.
Transport classification ADR/IMDG is based on packaging >30ltr(IMDG), <450ltr(ADR).
For other packaging units different classification can apply.

· UN "Model Regulation":

Void

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

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· **National regulations:**· **Technical instructions (air):**

Class	Share in %
Wasser	0.3
NK	0.7

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department.· **Contact:** temati@temati.com· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· *** Data compared to the previous version altered.**

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