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This Information Sheet is for products KIN AP750 AP500

TECHNICAL DATA SHEET:

PRODUCT: MULTI AP300 AP500 AP750 GP

DESCRIPTION:
The KINCORA AP and GP range of products are one component polyurethane foam systems under pressure in an aerosol container which produces a high quality rigid polyurethane foam that bonds. seals and insulates most construction materials including wood, brick, metal, concrete and most plastics. The complete range are moisture curing and are designed to be used as multi purpose foam sealents or gap filling adhesives by "foam in place" techniques.

MULTIFOAM AP:
MULTIFOAM AP is a Polyurethane system supplied in cans and dispensed by means of a simple, easy to use plastic nozzle.

MULTIFOAM GP:
MULTIFOAM GP is supplied in cans which can be screwed onto the KINCORA Pageris, Poly and Ultra Foam Guns. This enables a controlled quantity of foam to be dispensed where and when required, which usually results in up to a 40% saving in effective use of MULTIFOAM. MULTIFOAM is non flammable and approved to meet DIN 4102 part B2 specification.

PRODUCT APPLICATION:
The following procedures should be adopted when using MULTIFOAM.
(a) The can and its contents should always be at a temperature above 5ºC to react properly.
(b) Shake the can well until the contents are uniformly mixed and the sound of liquid material can be heard.
(c) MULTIFOAM should be dispensed to almost fill gaps, holes or cracks, and left to expand to fill the spaces completely during the curing process.
(d) Initial cure to a tack free condition takes about 10 mins and MULTIFOAM is ready to be cut in its cured state after 30 mins.

PROCESSING TIPS:

(a) Only use MULTIFOAM to fill gaps with widths between 5 and 50mm.
(b) For maximum adhesion to any surface always dampen the surface before applying MULTIFOAM.
(c) Use in applications where the temperature range is between -40 and 80ºC.
(d) If one surface contains no dampness or humidity, the gap to be filled should not exceed 30mm.
(e) When using for fixing windows or in other building applications, the components should always be well supported.
(f) Surfaces to which MULTIFOAM is applied should always be above 0ºC to cure effectivly.
(g) Surfaces should always be free from grease or oil as well as being well dampened.

APPLICATION NOTES:

MULTIFOAM meets with the requirements of existing building and construction regulations. It is designed to fix and provide insulation for doors and similar elements made of wood, metal and other materials.
MULTIFOAM bonds to most surfaces including critical materials such as expanded concrete etc. For optimum bonding, surfaces should be free of solvents dust and grease, and dampened if very dry.

CAUTION:

To prevent possible soiling, the surroundings of the work area should be covered with plastic film or masking tape. If during processing any foam splashes onto clothing or building components, it should be removed immediately with suitable solvent (MULTIFOAM Cleaning Agent). Solvents should be tested at an invisible spot prior to use. Fully cured foam splashes can only be removed by mechanical means.

PRODUCT BENEFITS:

Portable - MULTIFOAM can be used anywhere.
Easy to use - Shake the can and press the valve.
Suitable for sealing, gap filling, caulking and insulation.
No special handling or dispensing equipment is needed.
MULTIFOAM is non toxic when cured.
Cured foam can be cut to any shape and painted.

OTHER USES:

Sealing cracks in water pipes and man holes.
Encapsulating electrical parts.
Filling voids to prevent moisture ingression.
Packaging of fragile products.
Prevention of fire propagation in buildings.
Sealing basements in buildings to prevent RADON build up.

STORAGE:

Cans should be stored in a cool place at 18-25ºC.

SHELF LIFE:

Normal shelf life is 18 months under normal ambient conditions.

SAFETY ADVICE:

Contains diphenyl methane di-isocyanate.

Avoid breathing vapour.
Avoid contact with skin or eyes. If mixed foam comes into contact with skin wash with water.
Toxic if swallowed when wet
Non toxic when cured.

CAUTION:
This container is pressurised, do not expose to temperatures above 50°C. Keep away from naked flames and direct sunlight. Do not pierce or burn even after use.

TECHNICAL DATA:

MULTIFOAM AP & GP	Temperature	AP300	AP500	AP750	GP
Colour		yellowish	yellowish	yellowish	yellowish
Contents		300ml	500ml	750ml	700ml
Expanded volume free rise (per can)	at + 20°C	15lt	25lt	45lt	35lt
Density		17kg/m^3	17kg/m^3	17kg/m^3	17kg/m^3
Cell structure		Excessively closed cell structure approx 80%			
Tensile strength	at + 20°C	13N/cm^2	13N/cm^2	13N/cm^2	13N/cm^2
	at - 20°C	20N/cm^2	20N/cm^2	20N/cm^2	20N/cm^2
Elongation at break	at + 20°C	28%	28%	28%	28%
	at - 20°C	11%	11%	11%	11%
Shear strength		70N/cm^2	70N/cm^2	70N/cm^2	70N/cm^2
Flexural strength		35N/cm^2	35N/cm^2	35N/cm^2	35N/cm^2
Compression load deflection (10% compression)		8N/cm^2	8N/cm^2	8N/cm^2	8N/cm^2
Water absorption		0.4 Vol.%	0.4 Vol.%	0.4 Vol.%	0.4 Vol.%
Water vapour permeability		70g/m^2/d	70g/m^2/d	70g/m^2/d	70g/m^2/d
Anti-corrosive		yes	yes	yes	yes
Heat conductivity factor	at + 20°C	0.032 kcal/mh°C	0.032 kcal/mh°C	0.032 kcal/mh°C	0.032 kcal/mh°C
Dimensional stability	at + 50°C	+ 1.5	+ 1.5	+ 1.5	+ 1.5
	at + 20°C	+ 0	+ 0	+ 0	+ 0
	at - 20°C	- 0.4	- 0.4	- 0.4	- 0.4
Minimum can temperature		5°C	5°C	5°C	5°C
Minimum temperature of surface		0°C	0°C	0°C	0°C
Temperature stability of cured foam		- 40 to +80°C	- 40 to + 80°C	- 40 to + 80°C	- 40 to + 80°C
Tack-free	at + 20°C	10 mins	10 mins	10 mins	10 mins
Cuttable	at + 20°C	30 mins	30 mins	30 mins	30 mins
Load-bearing capacity according to thickness		4 hrs	4 hrs	4 hrs	4 hrs
Shelf life guarantee		18 months	18 months	18 months	18 months

MATERIAL SAFETY DATA SHEET
According to 91/155 EC

1. IDENTIFICATION OF SUBSTANCE:

Product details:

Trade name:	One Component Polyurethane Dispenser Foam B 3 Quality according to Din 4102
Manufacturer/Supplier:	Kincora Buffalo Court Kansas Avenue Salford M50 2QL Tel : 0161 873 7713 Fax 0161 848 0552
Informing department:	Quality Management
Emergency information:	Common and regional emergency call

2. COMPOSITION/ DATA ON COMPONENTS:

Chemical characterisation:
Description: Urethane prepolymer with liquefied propellants, non flammable, flammable and under pressure
Dangerous components:

EINECS- / CAS-No.	Designation, danger sign, R-phrases	Contents
202-966-0 / 101-68-8	diphenylmethane-4, 4' -diisocyanate Xn, R 20 - 36/ 37/38 - 42/43	5,0 - 10 %
203-448-7 / 106-97-8	butane; pure F+, R 12	2,5 - 10 %
204-065-8 / 115-10-6	dimethyl ether F+, R12	2,5 - 10 %

3. HAZARDS IDENTIFICATION:

Hazard designation:

F+ Extremely flammable
Xn Harmful

Information pertaining to particular dangers for man an environment:

R 42/43 May cause sensitisation by inhalation and skin contact.
R 36/37/38 Irritating to eyes, respiratory system and skin.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by

information from technical literature and by information furnished by supplier companies.

4. FIRST AID MEASURES:

General information:
After inhalation: Supply fresh air; consult doctor in case of symptoms.
After skin contact: Instantly wash with water and soap and rise thoroughly.
After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.

Information for the doctor:
Danger: Irritant effects by pasting.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing agents: CO_2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
For safety reasons unsuitable extinguishing agents: Water with a full water jet.
Special hazards caused by the material, its products of combustion or flue gases: Can be released in case of fire.
Hydrogen fluoride (HF)
Hydrogen chloride (HCL)
Protective equipment: Do not inhale explosion gases on combustion gases.
Additional information: Cool endangered container with water spray jet.

6. ACCIDENTAL RELEASE MEASURES:

Person-related safety precautions: Wear protective clothing. Ensure adequate ventilation.
Measures for environmental protection: No special measures required.
Measures for cleaning/collecting: Allow to solidify. Collect mechanically.

7. HANDLING AND STORAGE:

Handling:

- Information for safe handling:
  Ensure good ventilation/ exhaustion at workplace
  Keep away from heat and direct sunlight.
  Ensure good interior ventilation, especially at floor level (fumes are heavier than air.)
- Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke. Protect from heat.

Storage:

- Requirements to be met by storerooms and containers: Observe official regulations on storing packaging with pressurised containers.
- Information about storage in one common storage facility:
- Further information about storage conditions:
  Protect from heat and direct sunlight.
  Best storage temperature: 18 - 22°C.
- Storage class:
  Class according to regulation on inflammable liquids: Void

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Additional information about design of technical systems: No further data; see item 7.
Components with critical values that require monitoring at the workplace:

101-68-8 diphenylmethane - 4,4'- diisocyanate	5 - 10 %
TVL: 0,05 mg/m^3, 0.005 ppm	
115-10-6 dimethyl ether	2,5 - 10 %
TVL: 1910 mg/m^3, 1000 ml/m^3	
106-97-8 butane, pure	2,5 - 10 %
TVL: 2350 mg/m^3, 1000 ml/m^3	

Additional information: The lists that were valid during the compilation were used as basis.
Personal protective equipment:
General protective and hygienic measures: Avoid contact with the skin. The usual precautionary measures should be adhered to in handling the chemicals.
Breathing equipment: Not necessary if room is well ventilated.
Protection of hands: Protective gloves (material: butyl rubber).
Eye protections: Safety glasses.
Body protection: Protective work clothing.

9. PHYSICAL AN CHEMICAL PROPERTIES:

Form:		Aerosol
Colour:		light yellow
Smell:		weak characteristic
		Value/Range Unit Method
Change in condition		
Melting point/ Melting range:		Not applicable as aerosol
Boiling point/ Boiling range:		Not applicable as aerosol
Flash point:		Not applicable as aerosol
Ignition temperature:		Propellant > 230ºC
Decomposition temperature:		The cured foam may decompose at temperature above 100ºC. At temp. above 300ºC self-ignition is possible
Self-inflammability:		Product is not selfigniting
Danger of explosion:		Product is not explosive, however, formation of explosive air/steam mixture is possible.
Critical values for explosion:		Applicable for the propellant
Lower:		1,5 Vol. %
Upper:		18,6 Vol. %
Steam pressure:	at 20ºC	5,5 - 6 bar
Density:	at 20ºC	0,9 - 1,1 g/cm^3
Solubility in / Miscibility withWater:		Not miscible or difficult to mix

10. STABILITY AND REACTIVITY:

Thermal decomposition/ conditions to be avoided: No decomposition if used and stored according to specifications.
Dangerous reactions: Increasing inside pressure due warming up. Danger of bursting by overheating.
Dangerous products of composition: No dangerous decomposition products known (at combustion)

11. TOXICOLOGICAL INFORMATION:

Acute toxicity:
Primary irritant effects:
On the skin: Irritant for skin when pasting.
On the eye: Irritant effect: danger of pasting.
Sensitisation: Sensitisation possible by inhalation. Not applicable for the cured foam.

12. ECOLOGICAL INFORMATION:

Information about elimination (persistence and degradability): The cured foam is not biodegradable.

13. DISPOSAL CONSIDERATIONS:

Product:
Recommendation: Contact waste processors for recycling information.
Waste-key-number: EAK 080409
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleaning agent: Polyurethane Cleaner

14. TRANSPORT INFORMATION:

Land-Transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID - GGVS/E Class:	2 gases that are compressed, liquefied or dissolved under pressure.
Number/Letter:	5 F ADR
UN-Number:	1950
Designation of goods:	Aerosols
Remarks:	Transport according to RN 2201 a.

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class:	2
UN-Number:	1950
EMS-Number:	2 - 13
MFAG:	370
Marine pollutant:	no
Correct technical name:	Aerosols

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	2.1
UN/ID-Number:	1950
Correct technical name:	Aerosols, flammable

15. REGULATORY INFORMATION:

Designation according to EC guidelines: The product has been labelled in accordance with EG Directives / relevant national laws.
Code letter and hazard designation of product:
Xn Harmful
F+ Extremely flammable
Hazard-determining components of labelling:
Highly flammable propellants
Diphenylmethane -4,4' -diisocyanate

Risk phrases:	42/43	May cause sensitisation by inhalation and skin contact.
	36/37/38	Irritating for eyes, respiratory system and skin.
Safety phrases:	2	Keep out of the reach of children.
	23	Do not breathe gas/fumes/vapour/spray
	25	Avoid contact with eyes.

26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28	After contact with skin, wash immediately with plenty of water and soap.
45	In case of accident or you feel unwell, seek medical advice immediately
37	Wear suitable gloves.
39	Wear protective goggles.

Special designation of certain preparation: Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50ºC. Do not pierce or burn, even after use. Do not spray into a naked flame or any incandescent object. Keep away from sources of ignition - no smoking. Without adequate ventilation formation of explosives mixtures may occur. Contains Isocyanates. Observe manufacture's instructions.
Name, address, and tel.-no. of supplier or distributor.

16. OTHER INFORMATION:

These data are based on our present knowledge. However, They shall not constitute a guarantee for any specific product features an shall not establish a legally valid contractual relationship.

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