

Permaflor XP 2788

Two part reinforced polyurethane adhesive.

XP 2788 is a two part reinforced polyurethane adhesive, specifically developed for bonding raised flooring pedestals to concrete subfloors. This product has been developed to meet the exacting industrial standards demanded of the construction industry. Once mixed the two part adhesive forms a reactive thermosetting polymer with excellent adhesion and good flexibility.

Applications

This product was specifically designed for a strong and flexible bond, the adhesive has been designed to allow simple application on-site applications. It has other applications bonding metal trunking to timber, concrete and insulation without the need to heat or use solvents.



Chemical Base	Polymeric
Viscosity	Part A: 40000-50000cPs at 20°C Part B: 100-300 cPs at 20°C
Specific Gravity	Part A: 1.60 - 1.90 Part B: 1.15 - 1.25
No Volatile Content	97% - 100%
Solvents	None
Flammability	No Flash Point
Service Temperature	-40°C to +110°C
Colour	Part A: Grey Part B: Brown Mixed Grey
Chemical Resistance	Resistant to water, dilute acids, alkalis and aliphatic oils.
Mix Ratio	120: 10 by weight A:B
Pot Life (6.5kg)	4-6 hours at 20°C

Application Data

Packaging

6.5Kg twin pack

Application Temperature

Between 10°C and 25°C

Storage Temperature

Between 4°C and 25°C. Lower temperatures can cause permanent damage to the product.

Storage Life

6 Months in Unopened Containers



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01432 347 722

sales@permaflor.co.uk

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Two part reinforced polyurethane adhesive.

Coverage

A 6.5 kg pack will bond between 80 and 100 pedestals depending upon the quality of the subfloor. This has been determined coating one of the substrates and using 100mm x 100mm pedestal bases.

Substrate Preparation

All surfaces should be free of contamination by dust, grease, oils or release agents. Some metals (untreated aluminium or galvanised steel) may require priming to achieve a satisfactory permanent bond. Untreated concrete should be mature and free from excessive dust. When bonding to old primed or painted concrete, check the adhesion of such a coating to concrete, ensure it is sufficient for further bonding of pedestals.

Application

XP 2788 is supplied as a pre-weighed kit. The two components are contrasting colours to provide a visual indication of adequate mixing prior to application. The adhesive is conveniently packed with sufficient ullage in the Part A container to mix the whole pack, the Part B is packed in the exact proportion to allow for simple yet accurate mixing. XP 2788 only needs to be applied to one surface and is normally applied by dipping the pedestals into the adhesive prior to positioning on the subfloor.

Bonding Range and Pressure

XP 2788 should be used within 3 - 5 hours of mixing at 20°C and will then cure within 24 hours.

Cleaning Solvent

CAS 703 or CAS 704 on uncured material

Dilution Solvent

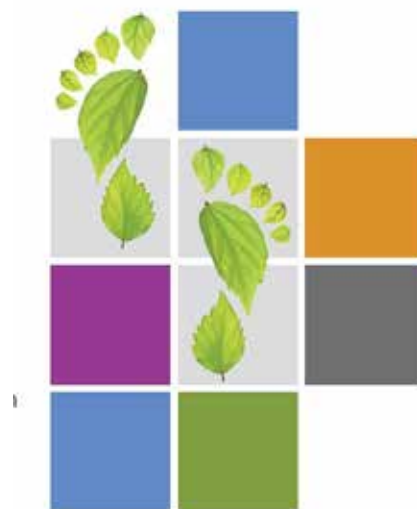
XP 2788 is supplied ready for use.

Additional Information

Higher temperatures will dramatically reduce the working time of the adhesive, as lower temperatures will dramatically extend the total cure time of the adhesive.

Health and safety

Please consult the XP 2788 Material Health and Safety Data Sheets for statutory regulation information.



Permaflor XP 2788 - Part A

Safety Data Sheet

Compilation date: 06/02/2009

Revision No: 2

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

- 1.1 Product Identifier: XP 2788 PART A
- 1.2 Relevant identified uses of the substance or mixture and advised against: Use of substance mixture: Adhesive / Sealant.
- 1.3 Company Name: Permaflor Access Flooring Solutions
Unit 6G,
Thorn Business Park,
Rotherwas,
Hereford,
HR2 6JT
Tel: +44(0) 1432 347 705
Fax: +44(0) 1432 347 730
Email: a.hubbard@permaflor.co.uk
- 1.4. Emergency telephone number

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:
Classification under CHIP: This products has no classification under CHIP.
Classification under CLP: This products has no classification under CLP.
- 2.2 Label Elements under CHIP: Hazard symbols: No significant hazard.
- 2.3 Other Hazards: PBT: This substance is not identified as a PBT substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.2 Mixtures Contains: A blend of branched polyols and inert fillers.

4. FIRST AID MEASURES (ACTION)

- 4.1 Description of First Aid Measures
- Skin Contact: Wash immediately with plenty of soap and water.
Eye Contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water.
Inhalation: Consult a doctor.
- 4.2 Most Important Symptoms and Effects, both acute and delayed
- Skin Contact: There may be mild irritation at the site of contact.
Eye Contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.
- 4.3 Indication of any immediate medical attention and specialist treatment needed: None

Continued:



Permaflor XP 2788 - Part A

Safety Data Sheet

5. FIRE - FIGHTING MEASURES

- 5.1 Extinguishing Media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- 5.2 Special hazards arising from the substance or mixture:
- 5.3 Exposure Hazards: In combustion emits toxic fumes.
Advice for Fire Fighters: Wear self - contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, protective equipment and emergency procedures: Refer to section 8 of the SDS for personal protection details. Turn leaking containers leak side up to prevent the escape of liquid.
- 6.2 Environmental Precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.
- 6.3 Methods of material for Containing and Cleaning up.
Clean up Procedure: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by appropriate method.
- 6.4 Reference to other sections: None

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
Handling Requirements: Ensure there is sufficient ventilation in the area.
- 7.2 Conditions for safe storage, including any incompatibilities:
Storage Conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable Packaging: Must ONLY be kept in original packaging.
- 7.3 Specific end use (s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control Parameters:
Workplace Exposure Limits: Not applicable.
- 8.2 Exposure Controls:
Engineering Measures: Ensure there is sufficient ventilation in the area.
Respiratory Protection: Respiratory product not required.
Hand Protection: Protective gloves.
Eye Protection: Safety glasses. Ensure eye bath is to hand.
Skin Protection: Protective clothing.

Continued:



Permaflor XP 2788 - Part A

Safety Data Sheet

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

State:	Liquid.
Colour:	Dark grey.
Odour:	Barely perceptible odour.
Oxidising:	Non oxidising (by EC Criteria).
Solubility in Water:	Not miscible.
Viscosity:	Viscous.
Relative Density:	1.712 @ 20°C.

9.2 Other Information: No data available.

10. STABILITY AND REACTIVITY

10.1	Reactivity:	None
10.2	Chemical Stability:	Stable under normal conditions.
10.3	Possibility of hazardous reactions:	None
10.4	Conditions to Avoid:	Heat
10.5	Incompatible materials: Materials to avoid:	Strong oxidising agents. Strong acids.
10.6	Hazardous Decomposition. Products:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicology Effects:

Toxicity Values:	Not applicable.
Symptoms Routes of Exposure:	
Skin Contact:	There may be mild irritation at the site of contact.
Eye Contact:	There may be irritation and redness.
Ingestion:	There may be irritation of the throat.
Inhalation:	No symptoms.

12. ECOLOGICAL INFORMATION

12.1	Toxicity: Ecotoxicity Values:	Not applicable.
12.2	Persistence and degradability:	Biodegradable.
12.3	Bio-accumulative Potential:	No bio-accumulative potential.
12.4	Mobility in Soil:	Readily absorbed into soil. Insoluble in water.
12.5	Results of PBT and vPvB assessment:	PBT Identification: This product is NOT identified as a PVT substance.
12.6	Other Adverse Effects:	Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Considerations:

Disposal Operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
Waste Code number:	08 04 10
Disposal of Packaging:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Continued:



Permaflor XP 2788 - Part A

Safety Data Sheet

14. TRANSPORT INFORMATION

Transport Class: This product does not require a classification for transport.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation legislation specific for the substance or mixture:

15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out for the substance or mixture by the supplier.

16. OTHER INFORMATION

Other Information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



Permaflor XP 2788 - Part B

Safety Data Sheet

Compilation date: 09/11/2010

Revision No: 3

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

- 1.1 Product Identifier: XP 2788 PART B
- 1.2 Relevant identified uses of the substance or mixture and advised against: Use of substance mixture: Adhesive / Sealant
- 1.3 Company Name: Permaflor Access Flooring Solutions
Unit 6G,
Thorn Business Park,
Rotherwas,
Hereford,
HR2 6JT
Tel: +44(0)1432 347 705
Fax: +44(0)1432 347 730
Email: a.hubbard@permaflor.co.uk
- 1.4. Emergency telephone number

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:
- Classification under CHIP: Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20
- Classification under CLP: Eye Irrit. 2: H319; Acute Tox. 4: H332; Carc. 2: H351; Resp. Sens. 1: H334; Skin Irrit. H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 2: H371
- Most important adverse effects: Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 2.2 Label Elements under CLP:
- Hazard statements:
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351: Suspected of causing cancer.
H371: May cause damage to organs.
H373: May cause damage to organs through prolonged or repeated exposure.
- Signal words: Danger
- Hazard pictograms: GHS07: Exclamation mark.
GHS08: Health hazard.



Continued:

Permaflor XP 2788 - Part B

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Precautionary statements: P260: Do not breathe vapours.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+313: IF exposed or concerned: Get medical advice/attention.
 P309+311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor.

Label elements under CHIP: Hazard symbols: Harmful.



Risk phrases: R20: Harmful by inhalation.
 R36/37/38: Irritating to eyes, respiratory system and skin.
 R40: Limited evidence of a carcinogenic effect.
 R42/43: May cause sensitisation by inhalation and skin contact.
 R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases: S1/2: Keep locked up and out of the reach of children.
 S23: Do not breathe fumes.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37: Wear suitable protective clothing and gloves.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S60: This material and its container must be disposed of as hazardous waste.

Precautionary phrases: Contains isocyanates. See information supplied by the manufacturer.

2.3 Other Hazards: PBT: This substance is not identified as a PBT substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures: Hazardous ingredients: DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	9016-87-9	Xn: R40; Xn: R20; Xn: R48/20; Xi: R36/37/38; Sens.: R42/43	Carc. 2: H351; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT SE 2: H371; STOT RE 2: H373	>90%

4. FIRST AID MEASURES (ACTION)

4.1 Description of First Aid Measures

Skin Contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Continued:



Permaflor XP 2788 - Part B

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	Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
	Ingestion:	Wash out mouth with water. Consult a doctor.
	Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
4.2	Most Important Symptoms and Effects, both acute and delayed	
	Skin Contact:	There may be mild irritation at the site of contact.
	Eye Contact:	There may be irritation and redness.
	Ingestion:	There may be irritation of the throat.
	Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
4.3	Indication of any immediate medical attention and specialist treatment needed	None

5. FIRE - FIGHTING MEASURES

5.1	Extinguishing Media:	Suitable extinguishing media for the surrounding fire should be used Use water spray to cool containers.
5.2	Special hazards arising from the substance or mixture:	
	Exposure Hazards:	In combustion emits toxic fumes.
5.3	Advice for Fire Fighters:	
	Advice for Fire Fighters:	Wear self - contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1	Personal Precautions, protective equipment and emergency procedures:	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
6.2	Environmental Precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3	Methods of material for Containing and Cleaning up. Clean up Procedure:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by appropriate method.
6.4	Reference to other sections:	None

7. HANDLING AND STORAGE

7.1	Precautions for safe handling: Handling Requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
7.2	Conditions for safe storage, including any incompatibilities: Storage Conditions:	Store in a cool, well ventilated area. Keep container tightly closed.
	Suitable Packaging:	Must ONLY be kept in original packaging.
7.3	Specific end use (s):	None

Continued:



Permaflor XP 2788 - Part B

Safety Data Sheet

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control Parameters:
 Hazardous ingredients: DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)
- Workplace exposure limits: Respirable dust.

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m ³	0.07 mg/m ³	-	>90%

- 8.2 Exposure Controls:
 Engineering Measures: Ensure there is sufficient ventilation of the area. Localised exhaust ventilation may be required in poorly ventilated areas.
- Respiratory Protection: Respiratory equipment is required only if the general level exceeds the Working Exposure Limit (WEL). Self-contained breathing apparatus must be available in case of emergency.
- Hand Protection: Protective gloves.
- Eye Protection: Safety glasses. Ensure eye bath is to hand.
- Skin Protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties:
- State: Liquid.
- Colour: Yellow-brown.
- Odour: Barely perceptible odour.
- Oxidising: Non oxidising (by EC Criteria).
- Solubility in Water: Not miscible.
- Viscosity: Viscous.
- Flash point°C: >200
- Relative Density: 1.2 @ 20°C
- 9.2 Other Information: Not applicable.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity: None
- 10.2 Chemical Stability: Stable under normal conditions.
- 10.3 Possibility of hazardous reactions: None
- 10.4 Conditions to Avoid: Heat
- 10.5 Incompatible materials:
 Materials to avoid: Strong oxidising agents. Strong acids.
- 10.6 Hazardous Decomposition.
 Haz. decamp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicology
 Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH	Hazardous: calculated
Irritation	OPT INH DRM	Hazardous: calculated

Continued:



Permaflor XP 2788 - Part B

Safety Data Sheet

Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

Symptoms Routes of Exposure:

Skin Contact:	There may be irritation and redness at the site of contact.
Eye Contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

12. ECOLOGICAL INFORMATION

12.1	Toxicity: Ecotoxicity Values:	Not applicable.
12.2	Persistence and degradability:	Biodegradable.
12.3	Bio-accumulative Potential:	No bio-accumulative potential.
12.4	Mobility in Soil:	Readily absorbed into soil. Insoluble in water.
12.5	Results of PBT and vPvB assessment:	PBT Identification: This product is NOT identified as a PVT substance.
12.6	Other Adverse Effects:	Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

13.1	Waste Treatment Methods:	
	Disposal Operations:	Transfer to a suitable container and arrange for collection by specialised disposal company.
	Waste Code number:	08 04 09
	Disposal of Packaging:	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
	NB:	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

Transport Class:	This product does not require a classification for transport.
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15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulation legislation specific for the substance or mixture:	
15.2	Chemical Safety Assessment:	A chemical safety assessment has not been carried out for the substance or mixture by the supplier.

16. OTHER INFORMATION

Other Information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.
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Continued:



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Phrases used in s.2 and 3:	<p>H315: Causes skin irritation.</p> <p>H317: May cause an allergic skin reaction.</p> <p>H319: Causes serious eye irritation.</p> <p>H332: Harmful if inhaled.</p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335: May cause respiratory irritation.</p> <p>H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.</p> <p>H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.</p> <p>H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.</p> <p>R20: Harmful by inhalation.</p> <p>R36/37/38: Irritating to eyes, respiratory system and skin.</p> <p>R40: Limited evidence of a carcinogenic effect.</p> <p>R42/43: May cause sensitisation by inhalation and skin contact.</p> <p>R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p>
Legal disclaimer:	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.</p>

Permaflor
access flooring solutions

The first choice for access flooring systems

For more information call:

01432 347 722

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