



Material SAFETY DATA SHEET

(Gripdeck AJ System)

Primecoat E - Base

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Primecoat E - Base**

Description: Base component of two part primer for Gripdeck system

Manufacturer: **Ayla Lebanon**
Port, Jamarek Street (Face Port Pharmacy), Rbeiz Bldg
Beirut, Lebanon
Tel.: +961 1 444 562 Fax: +961 1 444 563
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Modified epoxy resin, nonreactive additives.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Bisphenol-A epoxy resin	Xi	R36/38, R43	25068-38-6	> 85
Alkyl (C12-C14) glycidylether	Xi, N	R36/38, 43, 51/53	68609-97-2	< 15

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Irritating to eyes and respiratory system.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification: Xi, N. R36/38, 43, 51/53

4: FIRST AID MEASURES

Eyes:	Irrigate immediately with copious quantities of water for 15 minutes, Eyelids should be held away from the eyeball to ensure thorough rinsing. Obtain medical attention if irritation persists.
Skin:	Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Remove contaminated clothing. Obtain medical advice if skin disorder develops.
Inhalation:	Move to fresh air. Obtain medical attention if needed.
Ingestion:	Immediately give plenty of water (if possible charcoal slurry). If a person vomits when lying on his back, place him in a recovery position. Do not induce vomiting. Obtain medical advice.

5: FIRE FIGHTING MEASURES

Flash Point:	> 150°C.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire.
Extinguishing Media:	Foam, dry powder, carbon dioxide, water spray jet.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Do not breathe vapour. Avoid contact with skin and eyes.
Storage:	Keep in a dry cool ventilated place. Direct sunshine should be avoided. Keep away from ignition sources – No smoking. Keep container tightly closed. Keep away from food, drinks and animal food.



8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Inhalation:	When mist occurs during spraying operations, wear suitable respiratory protective equipment.
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	White
Odour:	Weak
Flash Point (closed cup) (°C):	> 150
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.10 – 1.20
Water Solubility:	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Direct sunshine should be avoided. Electric discharge.
Chemical Incompatibility:	Strong acid, strong base, strong oxidizer and amines.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.



11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 3000 mg/kg.

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Not applicable.
Degradability:	Not biodegradable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose off through an authorized waste contractor to a licensed site.
Used/ Contaminated Product:	As for unused product.
Packaging:	May be steam cleaned and recycled.

14: TRANSPORT INFORMATION



UN/SI Number: 3082
 Transport Name: Environmentally hazardous substance, liquid, n.o.s.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	9	III	No
Air Transport	IATA/ICAO	9	III	
At land	RID/ADR	9	III	

15: REGULATORY INFORMATION

Hazard Label Data:

Xi



Irritant

N



Dangerous for the environment

Contains: Modified epoxy resin.

Risk Phrases:

R36/38 Irritating to eyes and respiratory system.
 R43 May cause sensitization by skin contact.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S24 Avoid contact with skin.
 S28 After contact with skin, wash immediately with plenty of water.
 S37/39 Wear suitable gloves and eye/face protection.
 S60 This material and its container must be disposed of as hazardous waste.



16: OTHER INFORMATION

Issue Date:

07/05/2014

Revised Date:

Disclaimer:

The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.



Material SAFETY DATA SHEET

Primecoat E - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Primecoat E - Hardener**

Description: Hardener component of two part primer for Gripdeck system

Manufacturer: **Ayla Construction Chemicals**
P.O. Box 1117, Amman 11118 Jordan
Tel. + 962 6 5338891 Fax: + 962 6 5338829
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy curing agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
4,4'-diphenylmethane-diisocyanate, isomers	Xn	R20, 36/37/38, 42/43	9016-87-9	40 - 80

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.

Classification: Xn. R20, 36/37, 42/43

4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air. Obtain medical attention if needed.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.



5: FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Special Exposure Hazards:	Carbon monoxide, nitrogen oxides, isocyanate vapour and traces of hydrogen cyanide may be released. Do not allow contaminated extinguishing water to enter the soil, ground water or surface water.
Extinguishing Media:	Carbon dioxide, powder, foam or water fog - Do not use water jets.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in well-ventilated, cool, dry area. Purge with nitrogen and close container when not in use.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.
Exposure Guidelines:	

Component	TWA 8 hr	STEL 15 min
Isocyanates	0.02 mg/m ³ (MEL)	0.07 mg/m ³ (MEL)

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	Dark brown
Odour:	Musty
Flash Point (closed cup) (°C):	Not applicable
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.05 – 1.15
Water Solubility:	Reacts with water

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Humidity. Air exposure.
Chemical Incompatibility:	Amines, alcohols and water.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components. Expected oral LD50, rat > 5000 mg/kg.

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Insoluble in water, but will react with water forming a solid insoluble product.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.
 Used/ Contaminated Product: As for unused product.
 Packaging: May be steam cleaned and recycled.

14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:

Xn



Harmful

Contains: 4,4'-diphenylmethane-diisocyanate, isomers

Risk Phrases:

R20 Harmful by inhalation
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitization by inhalation and skin contact.

Safety Phrases:

S23 Do not breathe vapour/spray.
 S36/37 Wear suitable protective clothing and gloves.
 S45 In case of accident or if you feel unwell seek medical advice immediately.

16: OTHER INFORMATION

Issue Date: 07/05/2014 Revised Date:

Disclaimer: The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.



Material SAFETY DATA SHEET

Wearcoat Plus - Base

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat Plus - Base**

Description: Base component of two part pigmented wearing course for outdoor application for Gripdeck system

Manufacturer: **Ayla Construction Chemicals**
P.O. Box 1117, Amman 11118 Jordan
Tel. + 962 6 5338891 Fax: + 962 6 5338829
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Resin, nonreactive additives, fillers and pigments.

3: HAZARDS IDENTIFICATION

No significant hazard.

4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air. Obtain medical attention if needed.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5: FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Special Exposure Hazards: Carbon and nitrogen oxides, various hydrocarbons.

Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.

Personal Protective Equipment: Wear protective clothing and use self-contained breathing apparatus.



6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in well-ventilated, cool, dry area. Purge with nitrogen and close container when not in use.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	Grey
Odour:	Weak
Flash Point (closed cup) (°C):	Not applicable
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.45 – 1.55
Water Solubility:	Insoluble



10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Direct sunshine should be avoided. Air exposure.
Chemical Incompatibility:	Strong acids and oxidizers, isocyanates, phosphorous compounds.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components. Expected oral LD50, rat > 5000 mg/kg.

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Not applicable.
Degradability:	Not biodegradable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose off through an authorized waste contractor to a licensed site.
Used/ Contaminated Product:	As for unused product.
Packaging:	May be steam cleaned and recycled.

14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

This product is **not** classified as dangerous for supply.



16: OTHER INFORMATION

Issue Date:

07/05/2014

Revised Date:

Disclaimer:

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Material SAFETY DATA SHEET

Wearcoat Plus - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat Plus - Hardener**

Description: Hardener component of two part pigmented wearing course for outdoor application for Gripdeck system

Manufacturer: **Ayla Construction Chemicals**
P.O. Box 1117, Amman 11118 Jordan
Tel. + 962 6 5338891 Fax: + 962 6 5338829
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy curing agent, 1,6-hexamethylene diisocyanate.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
1,6-hexamethylene diisocyanate	T	R23, 36/37/38, 42/43	822-06-0	< 0.3

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Toxic by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.

Classification: T. R23, 36/37, 42/43

4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air. Obtain medical attention if needed.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.



5: FIRE FIGHTING MEASURES

Flash Point:	155 °C.
Special Exposure Hazards:	Carbon monoxide, carbon dioxide, hydrogen cyanid, nitrogen oxides, 1,6-hexamethylene diisocyanate.
Extinguishing Media:	Carbon dioxide, powder, foam or water spray.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in well-ventilated, cool, dry area. Purge with nitrogen and close container when not in use.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.
Exposure Guidelines:	

Component	TWA 8 hr	STEL 15 min
1,6-hexamethylene diisocyanate	0.02 mg/m ³ (OEL)	0.07 mg/m ³ (OEL)

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	Yellowish
Odour:	Weak
Flash Point (closed cup) (°C):	155
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.05 – 1.15
Water Solubility:	Reacts with water

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Humidity. Air exposure.
Chemical Incompatibility:	Amines, alcohols, acids and water.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 5000 mg/kg.

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Insoluble in water, but will react with water forming a solid insoluble product.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.
 Used/ Contaminated Product: As for unused product.
 Packaging: May be steam cleaned and recycled.

14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:

Xi



Irritant

Contains: Epoxy curing agent, 1,6-hexamethylene diisocyanate.

Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.
 R42/43 May cause sensitization by inhalation and skin contact.

Safety Phrases:

S23 Do not breathe vapour/spray.
 S36/37 Wear suitable protective clothing and gloves.

16: OTHER INFORMATION

Issue Date: 07/05/2014 Revised Date:

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Material SAFETY DATA SHEET

Wearcoat TG - Base

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TG - Base**

Description: Base component of two part pigmented wearing course for Gripdeck system

Manufacturer: **Ayla Construction Chemicals**
P.O. Box 1117, Amman 11118 Jordan
Tel. + 962 6 5338891 Fax: + 962 6 5338829
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Resin, nonreactive additives, fillers and pigments.

3: HAZARDS IDENTIFICATION

No significant hazard.

4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air. Obtain medical attention if needed.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

5: FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Special Exposure Hazards: Carbon and nitrogen oxides, various hydrocarbons.

Extinguishing Media: Carbon dioxide, powder, foam or water fog - Do not use water jets.

Personal Protective Equipment: Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in well-ventilated, cool, dry area. Purge with nitrogen and close container when not in use.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	Grey
Odour:	Weak
Flash Point (closed cup) (°C):	Not applicable
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.45 – 1.55
Water Solubility:	Insoluble



10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Direct sunshine should be avoided. Air exposure.
Chemical Incompatibility:	Strong acids and oxidizers, isocyanates, phosphorous compounds.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 5000 mg/kg.

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Not applicable.
Degradability:	Not biodegradable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose off through an authorized waste contractor to a licensed site.
Used/ Contaminated Product:	As for unused product.
Packaging:	May be steam cleaned and recycled.



14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

This product is **not** classified as dangerous for supply.

16: OTHER INFORMATION

Issue Date: 07/05/2014

Revised Date:

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Material SAFETY DATA SHEET

Wearcoat TG - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TG - Hardener**

Description: Hardener component of two part pigmented wearing course for Gripdeck system

Manufacturer: **Ayla Construction Chemicals**
P.O. Box 1117, Amman 11118 Jordan
Tel. + 962 6 5338891 Fax: + 962 6 5338829
www.dcp-int.com

Date Prepared: 07.05.14

MSDS Number: DCP/05/05/23

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy curing agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
4,4'-diphenylmethane-diisocyanate, isomers	Xn	R20, 36/37/38, 42/43	9016-87-9	40 - 80

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.

Classification: Xn. R20, 36/37, 42/43.

4: FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air. Obtain medical attention if needed.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.



5: FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Special Exposure Hazards:	Carbon monoxide, nitrogen oxides, isocyanate vapour and traces of hydrogen cyanide may be released. Do not allow contaminated extinguishing water to enter the soil, ground water or surface water.
Extinguishing Media:	Carbon dioxide, powder, foam or water fog - Do not use water jets.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Collect as much as possible in a container for disposal. Soak up the remainder with inert absorbent. Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Do not use near sources of ignition. Avoid breathing fumes. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in well-ventilated, cool, dry area. Purge with nitrogen and close container when not in use.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.
Exposure Guidelines:	

Component	TWA 8 hr	STEL 15 min
Isocyanates	0.02 mg/m ³ (MEL)	0.07 mg/m ³ (MEL)

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous liquid
Colour:	Dark brown
Odour:	Musty
Flash Point (closed cup) (°C):	Not applicable
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.05 – 1.15
Water Solubility:	Reacts with water

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Humidity. Air exposure.
Chemical Incompatibility:	Amines, alcohols and water.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 5000 mg/kg

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Insoluble in water, but will react with water forming a solid insoluble product.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Toxic to aquatic organisms.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.

Used/ Contaminated Product: As for unused product.

Packaging: May be steam cleaned and recycled.

14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:

Xn



Harmful

Contains: 4,4'-diphenylmethane-diisocyanate, isomers.

Risk Phrases:

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitization by inhalation and skin contact.

Safety Phrases:

S23	Do not breathe vapour/spray.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell seek medical advice immediately.

16: OTHER INFORMATION

Issue Date: 07/05/2014 Revised Date:

Disclaimer: The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.