



# Material SAFETY DATA SHEET

## *(Gripdeck HPW System)*

### Primecoat U – Base

#### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Primecoat U - Base**

Description: Base component of high build epoxy coating 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](http://www.dcp-int.com)

Date Prepared: 09.07.17

MSDS Number: DCP/05/08/106-B

#### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition:	Epoxy resin, epoxy diluent.			
Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Bisphenol-A epoxy resin	Xi	R36/38, 43	25068-38-6	20 – 30
Silica flour	-	-	-	40 - 50

Refer to Section 8 for Occupational Exposure Limits.

#### 3: HAZARDS IDENTIFICATION

Hazard Information: Irritating to eyes and skin.  
May cause sensitization by skin contact.

Classification: Xi, N. R36/38, 43

#### 4: FIRST AID MEASURES

Eyes:	Irrigate immediately with copious quantities of water for 15 minutes. Obtain medical attention urgently.
Skin:	Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothes and shoes. Obtain medical advice if skin disorders develop.
Inhalation:	Remove from exposure, obtain medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

#### 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	> 200°C.
Extinguishing Media:	Carbon dioxide, powder, foam or water.
Personal Protective Equipment:	Self-contained breathing apparatus.
Special Exposure Hazards:	Toxic fumes. Carbon oxides.

#### 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent such as sand. Gather into labeled containers. Dispose off as applicable regulations.

#### 7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.
Storage:	Keep container tightly closed in a cool dry area.

#### 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Safety glasses/goggles.
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing.
Respiratory Protection:	Organic chemical cartridge respirator, if needed.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	No specific ventilation requirements noted.
Exposure Guidelines:	None assigned.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Beige
Odour:	Mild
pH (concentrate):	Not applicable
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 200
Autoflammability (°C):	Not determined
Explosive Properties (%):	Not Known
Relative Density (@25°C):	1.7 – 1.8
Water Solubility:	Insoluble

## 10: STABILITY AND REACTIVITY

Stability:	Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross linked materials.
Conditions to Avoid:	None known.
Chemical Incompatibility:	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition yield oxides of carbon, toxic fumes.

## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Acute Oral effect LD50 > 5000 mg/kg.  
Classified as moderate sensitizer.

### Health Effects

On Eyes:	Slight irritation (rabbit).
On Skin:	Moderate irritation (rabbit).
By Inhalation:	May cause respiratory irritation.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen.
Mobility:	Viscous liquid. Insoluble in water.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not expected to be bioaccumulate.
Acute Fish Toxicity:	Ecotoxic to fish/ daphnia/ algae.

## 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:	Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION



UN Number:	3082
Transport Name:	Environmentally hazardous substance, liquid n.o.s (Epoxy resin).

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**

Named Ingredients:

Epoxy resin (Number average molecular weight < 700)

UN Number:

3082

Risk Phrases:

R36/38

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R51/53

Toxic to aquatic organisms, may cause long-term adverse in the aquatic environment.

Safety Phrases:

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39

Wear suitable gloves and eye/face protection.

## 16: OTHER INFORMATION

Issue Date:

09/07/2017

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 U - Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Primecoat U - Hardener**

Description: Hardener component of two part High build, Solvent free, epoxy floor coating

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](http://www.dcp-int.com)

Date Prepared: 09.07.17

MSDS Number: DCP/05/08/106-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition:	Epoxy resin hardening agent.			
Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
3-aminomethyl-3,5,5-tri-methylcyclohexylamine	C, Xn	R21/22, 34, 43, 52/53	2855-13-2	30 - 70
Benzyl alcohol	Xn	R20/22	100-51-6	20 - 45

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Corrosive.  
Harmful by inhalation, in contact with skin and if swallowed.  
Causes burns.  
Irritating to eyes and skin.  
May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification: C, Xn. R20/21/22, 34, 43, 52/53.



#### **4: FIRST AID MEASURES**

Eyes:	Irrigate opened eye immediately with copious quantities of water for 15 minutes. Obtain medical attention immediately.
Skin:	Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothes and shoes. Obtain medical advice if irritation persists.
Inhalation:	Remove from exposure; obtain medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

#### **5: FIRE FIGHTING MEASURES**

Flash Point (Closed Cup):	> 100°C.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons do not use Water with a full water jet.
Personal Protective Equipment:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Carbon monoxide (CO), Nitrogen oxides (NO <sub>x</sub> ).

#### **6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	Ensure adequate ventilation immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent like sand. Gather into labeled containers. Dispose off as applicable regulations.

#### **7: HANDLING AND STORAGE**

Handling:	Maintain good standards of personal hygiene. 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 conformity with local fire regulations. Store away from sources of ignition. Keep away from food containers. Store at 15 - 25°C.

## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Tightly sealed safety glasses/goggles.
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing.
Respiratory Protection:	Breathing filters apparatus.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	Use only in well ventilated area. Local exhaust ventilation is recommended.
Exposure Guidelines:	None assigned.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellowish
Odour:	Amine-like
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 100
Autoflammability (°C):	Product is not self igniting
Relative Density (@25°C):	1.0 – 1.1
Water Solubility:	Not miscible or difficult to mix

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Humidity.
Chemical Incompatibility:	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition yield oxides of Carbon, nitrogen compounds.

## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD50, rat > 1000 mg/kg.  
Classified as skin sensitizer.

### Health Effects

On Eyes:	Strong caustic effect.
On Skin:	Corrosive - causes burns. May cause sensitization.
By Inhalation:	Harmful by inhalation. May cause respiratory irritation.
By Ingestion:	Harmful if swallowed. May cause irritation of mouth, throat and digestive tract. Ingestion of significant amounts may result in severe systemic effects.



## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Insoluble in water.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not Known.
Acute Fish Toxicity:	Expected to be ecotoxic to fish/daphnia/algae.

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Classified as a special waste. May be reacted with base component to give an inert polymeric material.
Used/ Contaminated Product:	Classified as a special waste. Dispose off through an authorized waste contractor to a licensed site.
Packaging:	Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION

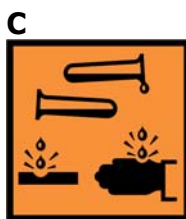


UN Number:	2289
Transport Name:	Corrosive substances.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMDG	8	III	No
Air Transport	IATA/ICAO	8	III	
At land	RID/ADR	8	III	

## 15: REGULATORY INFORMATION

### Hazard Label Data:



**Corrosive**

Named Ingredients:	3-aminomethyl-3,5,5-trimethylcyclohexylamine.	
Risk Phrases:	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R34	Causes burns.
	R43	May cause sensitisation by skin contact.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	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.

## 16: OTHER INFORMATION

Issue Date: 09/07/2017 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

## Flexcoat 100 - Base

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Flexcoat 100 - Base**

Description: Base component of two part elastomeric crack-bridging membrane 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](http://www.dcp-int.com)

Date Prepared: 11.10.2020

MSDS Number: DCP/05/08/117-B

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy/polyurethane resin with additives and fillers.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polyurethane-prepolymers with blocked isocyanate-groups	-	-	-	40 - 50
<b>reaction product:</b>				
bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	Xi, N	R36/38, 43, 51/53	25068-38-6	7 - 15
Bisphenol F- Epoxyresin	Xi, N	R38, 43, 51/53	28064-14-4	5 - 10

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Irritating to eyes and skin.  
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:	Rinse opened eye for several minutes under running water. Then consult doctor.
Skin:	Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
Inhalation:	Take affected persons into the open air and position comfortably. Seek medical treatment in case of complaints.
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:	> 150 °C.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam - Do not use full water jets.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

#### 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing. Use breathing protection against the effects of fumes/dust/aerosol.
Environmental Precautions:	Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

#### 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:	Store only in the original container. Store in cool location. Provide floor trough without outlet. Store away from foodstuffs. Keep container tightly sealed.

## 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:	Liquid
Colour:	Yellowish
Odour:	Weak, characteristic
Flash Point (closed cup) (°C):	> 150
Boiling Point (°C):	> 200
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.00 ± 0.05
Water Solubility:	Not miscible

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Excessive heating. Humidity. Air exposure.
Chemical Incompatibility:	Strong oxidizing agents, alkali, amines and acids.
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 > 2000 mg/ kg

### Health Effects

On Eyes:	Causes serious eye damage.
On Skin:	Causes severe skin burns and eye damage.
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.
Degradability:	No information available.
Bioaccumulation:	No information available.
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:	Disposal must be made according to official regulations.

## 14: TRANSPORT INFORMATION



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

Transport Type:		Class:	Pack Group:	Item:	Marine Pollutant:
At Sea	IMO/IMDG	9	III		Yes
Air Transport	IATA/ICAO	9	III		
At land	RID/ADR	9	III		

## 15: REGULATORY INFORMATION

### Hazard Label Data:

Xn



**Harmful**

N



**Dangerous for  
the environment**

### Risk Phrases:

R36/38	Irritating to eyes and skin.
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:

S23	Don not breather fumes.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - obtain special instructions before use.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.

## 16: OTHER INFORMATION

Issue Date: 09.07.19 Revised Date: 11.10.2020

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# Material SAFETY DATA SHEET

## Flexcoat 100 - Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Flexcoat 100 - Hardener**

Description: Hardener component of two part elastomeric crack-bridging membrane 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](http://www.dcp-int.com)

Date Prepared: 11.10.2020

MSDS Number: DCP/05/08/117-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Curing agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Phenol, styrenated	Xi, N	R38, 43, 51/53	61788-44-1	10 - 25
Phenol, methylstyrenated 3-aminomethyl-3,5,	Xi	R38, 43, 52/53	68512-30-1	10 - 25
5-trimethylcyclohexylamine 2,4,6-tris(dimethylaminomethyl)	C, Xn, Xi	R21/22, 34, 41, 52/53	2855-13-2	10 - 25
Phenol	C, Xi	R34, 41, 43	90-72-2	10 - 25
Benzyl alcohol	Xn, Xi	R20/22, 36	100-51-6	10 - 25
4-methylcyclohexane-1,3-diamine	C, Xn	R22, 34	13897-55-7	2.5 - 10
Bis((dimethylamino)methyl)phenol	C	R34	71074-89-0	≤ 2.5
2-Methylcyclohexan-1,3-diamin	C, Xn	R22, 34	13897-56-8	≤ 2.5

Refer to Section 8 for Occupational Exposure Limits.



### 3: HAZARDS IDENTIFICATION

Hazard Information:	Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes and skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Classification:	C, Xn, Xi. R20/21/22, 34, 36/38, 41, 43, 52/53.

### 4: FIRST AID MEASURES

Eyes:	Rinse opened eye for several minutes under running water. Then consult doctor.
Skin:	Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
Inhalation:	Take affected persons into the open air and position comfortably. Seek medical treatment in case of complaints.
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:	> 100 °C.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam - Do not use full 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:	Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

## 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:	Store only in the original container. Provide floor trough without outlet. Store away from foodstuffs. Keep container tightly sealed.

## 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:	Liquid
Colour:	Yellowish
Odour:	Amine like
Flash Point (closed cup) (°C):	> 100
Boiling Point (°C):	> 200
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.00 ± 0.05
Water Solubility:	Not miscible

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Excessive heating. Humidity. Air exposure.
Chemical Incompatibility:	Strong oxidizing agents.
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 > 2000 mg/kg

### Health Effects

On Eyes:	Causes serious eye damage.
On Skin:	Causes severe skin burns and eye damage.
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.
Degradability:	No information available.
Bioaccumulation:	No information available.
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:	Disposal must be made according to official regulations.

## 14: TRANSPORT INFORMATION



UN/SI Number: 2735

Transport Name: Amines, liquid, corrosive, n.o.s (4-methylcyclohexane-1,3 diamine).

Transport Type:		Class:	Pack Group:	Item:	Marine Pollutant:
At Sea	IMO/IMDG	8	II		No
Air Transport	IATA/ICAO	8	II		
At land	RID/ADR	8	II		

## 15: REGULATORY INFORMATION

### Hazard Label Data:

**Xn**



**Harmful**

**C**



**Corrosive**

### Risk Phrases:

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases:

S23	Don not breather fumes.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - obtain special instructions before use.
S61	Avoid release to the environment. Refer to special instructions / safety data sheets.
S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.

## 16: OTHER INFORMATION

Issue Date: 09.07.19 Revised Date: 11.10.2020

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

## Antislip Aggregate #2

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Antislip aggregate #2**  
Description: Non slip flooring aggregate  
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](http://www.dcp-int.com)  
Date Prepared: 19.04.17  
MSDS Number: DCP/05/07

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Silica sand.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Silica sand	-	-	-	100

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Long term inhalation may cause health problems.

### 4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for 15 minutes. Obtain medical attention if irritation persists.  
Skin: Wash with soap and plenty of water or suitable skin cleanser.  
Inhalation: Remove from exposure; obtain medical attention if any discomfort continues.  
Ingestion: Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Obtain medical attention if any discomfort continues.

## 5: FIRE FIGHTING MEASURES

Extinguishing Media:	None, not flammable.
Personal Protective Equipment:	None.
Special Exposure Hazards:	None.

## 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation of dust.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Reuse if possible, or collect in plastic bags, residues can be removed with vacuum cleaner.

## 7: HANDLING AND STORAGE

Handling:	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.
Storage:	Store in a dry, cool area.

## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Safety glasses/goggles.
Skin Protection:	Use suitable protective gloves.
Respiratory Protection:	Wear approved dust mask.
Hygiene Measures:	Wear appropriate clothing to prevent repeated skin contact.
Engineering Controls:	Use in well ventilated area.
Exposure Guidelines:	
Silica, crystalline	TWA (8 hours)                      10 mg/m <sup>3</sup> (respirable dust)

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Colour:	Sandy
Odour:	Not applicable
pH (concentrate):	Not applicable
Boiling Point (°C):	Not applicable
Flash Point (closed cup) (°C):	Not applicable
Water Solubility:	Insoluble



## 10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	None Known.
Chemical Incompatibility:	None.
Hazardous Decomposition Products:	None.

## 11: TOXICOLOGICAL INFORMATION

### Health Effects

On Eyes:	Irritating and may injure eye tissue if not removed promptly.
On Skin:	Unlikely to irritate on brief or occasional exposure.
By Inhalation:	May cause respiratory irritation.
By Ingestion:	Unlikely to occur. Low order of acute toxicity.
Chronic:	Respirable dust constitutes a health hazard if inhaled over long period. Inhalation of free particles of free silica, in the respirable range can give rise to fibrosis of the lung.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	Not expected to be hazardous to the environment.
Mobility:	Insoluble in water.
Degradability:	Not applicable.
Bioaccumulation:	Not expected to be bioaccumulate.
Acute Fish Toxicity:	Not expected to be ecotoxic to fish/ daphnia/ algae.

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.	
Unused Product:	Dispose off in an approved manner.
Used/ Contaminated Product:	As for unused product.
Packaging:	Must be disposed off as per the local authority.

## 14: TRANSPORT INFORMATION

The product is <b>not</b> classified as dangerous for transport.	
HS Code:	250590000





## 15: REGULATORY INFORMATION

Safety Phrases: S22 Don't breathe dust.

## 16: OTHER INFORMATION

Issue Date: 19/04/2017 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 TE - Base

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TE - Base**

Description: Base component of high build epoxy coating 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](http://www.dcp-int.com)

Date Prepared: 19.01.17

MSDS Number: DCP/05/08/106-B

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy resin, epoxy diluent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Bisphenol-A epoxy resin	Xi	R36/38, 43	25068-38-6	25 – 35
Silica flour	-	-	-	40 - 50

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Irritating to eyes and skin.  
May cause sensitization by skin contact.  
Toxic to aquatic organism, may cause long-term affects 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. Obtain medical attention urgently.
Skin:	Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothes and shoes. Obtain medical advice if skin disorders develop.
Inhalation:	Remove from exposure, obtain medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

#### 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	> 200°C.
Extinguishing Media:	Carbon dioxide, powder, foam or water.
Personal Protective Equipment:	Self-contained breathing apparatus.
Special Exposure Hazards:	Toxic fumes. Carbon oxides.

#### 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent such as sand. Gather into labeled containers. Dispose off as applicable regulations.

#### 7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation.
Storage:	Keep container tightly closed in a cool dry area.

#### 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Safety glasses/goggles.
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing.
Respiratory Protection:	Organic chemical cartridge respirator, if needed.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	No specific ventilation requirements noted.
Exposure Guidelines:	None assigned.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Lumps free grey
Odour:	Mild
pH (concentrate):	Not applicable
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 200
Autoflammability (°C):	Not determined
Explosive Properties (%):	Not Known
Relative Density (@25°C):	1.55 – 1.65
Water Solubility:	Insoluble

## 10: STABILITY AND REACTIVITY

Stability:	Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross linked materials.
Conditions to Avoid:	None known.
Chemical Incompatibility:	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition yield oxides of carbon, toxic fumes.

## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Acute Oral effect LD50 > 5000 mg/kg.  
Classified as moderate sensitizer.

### Health Effects

On Eyes:	Slight irritation (rabbit).
On Skin:	Moderate irritation (rabbit).
By Inhalation:	May cause respiratory irritation.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen.
Mobility:	Viscous liquid. Insoluble in water.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not expected to be bioaccumulate.
Acute Fish Toxicity:	Ecotoxic to fish/ daphnia/ algae.

## 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:	Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION



UN Number:	3082
Transport Name:	Environmentally hazardous substance, liquid n.o.s (Epoxy resin).

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**

Named Ingredients:

Epoxy resin (Number average molecular weight < 700)

UN Number:

3082

Risk Phrases:

R36/38

Irritating to eyes and skin.

R43

May cause sensitization by skin contact.

R51/53

Toxic to aquatic organisms, may cause long-term adverse in the aquatic environment.

Safety Phrases:

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39

Wear suitable gloves and eye/face protection.

## 16: OTHER INFORMATION

Issue Date:

09/07/2017

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 TE - Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TE - Hardener**

Description: Hardener component of two part Nontoxic solvent free epoxy protective coating for concrete and metal

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](http://www.dcp-int.com)

Date Prepared: 09.07.17

MSDS Number: DCP/05/08/106-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy resin hardening agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polyoxypropylendiamin	C, Xn	R22, 34	9046-10-0	10 - 65
nonylphenol	C, Xn, N	R22, 34, 62, 50/53, 63	25154-52-3	10 - 55
2-piperazin-1-ylethylamine	C, Xn	R21/22, 34, 43, 52/53	140-31-8	10 - 35

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Corrosive.  
Harmful if swallowed.  
Causes burns.  
Irritating to eyes and skin.  
May cause sensitisation by skin contact.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Possible risk of impaired fertility.  
Possible risk of harm to the unborn child.

Classification: C, Xn, N. R22, 34, 36/38, 43, 51/53, 62, 63.



#### **4: FIRST AID MEASURES**

Eyes:	Irrigate opened eye immediately with copious quantities of water for 15 minutes. Obtain medical attention immediately.
Skin:	Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothes and shoes. Obtain medical advice if irritation persists.
Inhalation:	Remove from exposure; obtain medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.
General:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### **5: FIRE FIGHTING MEASURES**

Flash Point (Closed Cup):	> 100°C.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons do not use Water with a full water jet.
Personal Protective Equipment:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Carbon monoxide (CO), nitrogen oxides (NO <sub>x</sub> ).

#### **6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions:	Ensure adequate ventilation immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent like sand. Gather into labeled containers. Dispose off as applicable regulations.

#### **7: HANDLING AND STORAGE**

Handling:	Maintain good standards of personal hygiene. 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 conformity with local fire regulations. Store away from sources of ignition. Keep away from food containers. Store at 15 - 25°C.



## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Tightly sealed safety glasses/goggles.
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing.
Respiratory Protection:	Breathing filters apparatus.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	Use only in well ventilated area. Local exhaust ventilation is recommended.
Exposure Guidelines:	None assigned.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellowish
Odour:	Amine-like
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 100
Autoflammability (°C):	Product is not selfigniting
Explosive Properties (%):	Product is not explosive
Relative Density (@25°C):	0.98 – 1.00
Water Solubility:	Not miscible or difficult to mix

## 10: STABILITY AND REACTIVITY

Stability:	Contains volatile solvent. Stable if used as directed.
Conditions to Avoid:	Any source of ignition. Temperature above 35°C.
Chemical Incompatibility:	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition yield oxides of carbon, nitrogen compounds.



## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.

Expected oral LD50, rat > 1000 mg/kg.

Classified as skin sensitizer.

### Health Effects

On Eyes:	Strong caustic effect.
On Skin:	Corrosive - causes burns. May cause sensitization.
By Inhalation:	Harmful by inhalation. May cause respiratory irritation.
By Ingestion:	Harmful if swallowed. May cause irritation of mouth, throat and digestive tract. Ingestion of significant amounts may result in severe systemic effects.
Chronic:	Repeated and prolonged skin contact will result in severe irritation leading to burns.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Insoluble in water.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not Known.
Acute Fish Toxicity:	Expected to be ecotoxic to fish/ daphnia/ algae.

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Classified as a special waste. May be reacted with base component to give an inert polymeric material.
Used/ Contaminated Product:	Classified as a special waste. Dispose off through an authorized waste contractor to a licensed site.
Packaging:	Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION



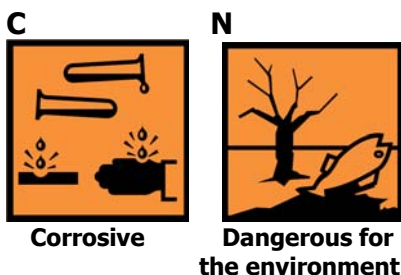
UN Number: 1760

Transport Name: Corrosive substances.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMDG	8	II	Yes
Air Transport	IATA/ICAO	8	II	
At land	RID/ADR	8	III	

## 15: REGULATORY INFORMATION

### Hazard Label Data:



Named Ingredients:	2-piperazin-1-ylethylamine Nonylphenol	
UN Number:	1760	
Risk Phrases:	R22	Harmful if swallowed.
	R34	Causes burns.
	R36/38	Irritating to eyes and skin.
	R43	May cause sensitisation by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R62	Possible risk of impaired fertility.
	R63	Possible risk of harm to the unborn child.
Safety Phrases:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	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.

## 16: OTHER INFORMATION

Issue Date: 09/07/2017 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 TP100 - Base

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TP100 - Base**

Description: Hardener component of two part elastomeric crack-bridging membrane 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](http://www.dcp-int.com)

Date Prepared: 09.07.17

MSDS Number: DCP/05/08/106-B

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy/polyurethane resin with additives, solvents and fillers.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Barium sulfate	-	-	7727-43-7	15 - 20
o-xylene	F, Xn, Xi	R10, 20/21, 36/37/38, 48, 65	1330-20-7	15 - 20
2-methoxy-1-methylethyl acetate	F	R10	108-65-6	10 - 15
Xylene	F, Xn, Xi	R10, 20/21, 38	1330-20-7	10 - 20
Talc	-	-	14807-96-6	10 - 15
2-methoxy-1-methylethyl acetate	F	R10	108-65-6	5 - 10
Titanium dioxide	-	-	13463-67-7	5 - 10

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Flammable.  
Harmful by inhalation and in contact with skin.  
Irritating to eyes, respiratory system and skin.  
Danger of serious damage to health by prolonged exposure.

Classification: F, Xn, Xi. R10, 20/21, 36/37/38, 48, 65.

#### 4: FIRST AID MEASURES

Eyes:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
Skin:	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water.
Inhalation:	Take affected persons into the open air and position comfortably. Seek medical treatment in case of complaints.
Ingestion:	Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

#### 5: FIRE FIGHTING MEASURES

Flash Point:	> 27 °C.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire. Do not inhale explosion and combustion gases. Burning produces heavy smoke
Extinguishing Media:	In case of fire, use foam, CO <sub>2</sub> , powder halogenated. To cool the containers to use vapour water. Not to use directed water jets on flames.
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:	Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

#### 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:	Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed. Keep in cool and adequately ventilated area.

## 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:	Liquid
Colour:	Whitish
Odour:	Pungent
Flash Point (closed cup) (°C):	> 27
Boiling Point (°C):	> 130
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.3 – 1.4
Water Solubility:	Insoluble

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Excessive heating. Humidity. Keep away from open flames, sparks and other sources of ignition.
Chemical Incompatibility:	Oxidizing agents. Avoid contact with combustible materials. The product could catch fire.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire. Exothermic reactions in the presence of oxidizing agents.



## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD50, rat > 2000 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.
Degradability:	No information available.
Bioaccumulation:	No information available.
Acute Fish Toxicity:	Harmful 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:	Disposal must be made according to official regulations.



## 14: TRANSPORT INFORMATION



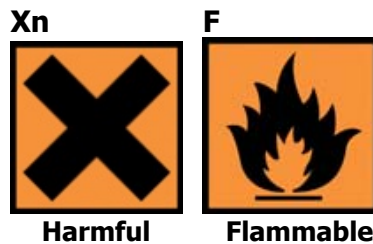
UN/SI Number: 1866

Transport Name: Resin solution, flammable.

Transport Type:		Class:	Pack Group:	Item:	Marine Pollutant:
At Sea	IMO/IMDG	3	III		No
Air Transport	IATA/ICAO	3	III		
At land	RID/ADR	3	III		

## 15: REGULATORY INFORMATION

### Hazard Label Data:



### Risk Phrases:

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R48	Danger of serious damage to health by prolonged exposure.

### Safety Phrases:

S15	Keep away from heat.
S16	Keep away from sources of ignition - No smoking.
S17	Keep away from combustible material.
S23	Don not breather fumes.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S41	In case of fire and/or explosion do not breathe fumes.
S43	In case of fire use foam, CO <sub>2</sub> , powder halogenated. To cool the containers to use vapour water. Not to use directed water jets on flames
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - obtain special instructions before use.
S61	Avoid release to the environment. Refer to special instructions / safety data sheets.
S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.

## 16: OTHER INFORMATION

Issue Date: 09/07/2017 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 TP100 - Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Wearcoat TP100 - Hardener**

Description: Hardener component of two part elastomeric crack-bridging membrane 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](http://www.dcp-int.com)

Date Prepared: 09.07.17

MSDS Number: DCP/05/08/106-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition:	Curing agent.			
Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Aliphatic polyisocyanate	Xi	R43	28182-81-2	70 - 80
o-xylene	F, Xn, Xi	R10, 20/21, 36/37/38, 48, 65	1330-20-7	12 - 15
2-methoxy-1-methylethyl acetate	F	R10	108-65-6	10 - 12.5

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

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

Classification: F, Xn, Xi. R10, 20/21, 36/37/38, 43.



#### 4: FIRST AID MEASURES

Eyes:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.
Skin:	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely. After contact with skin, wash immediately with soap and plenty of water.
Inhalation:	Take affected persons into the open air and position comfortably. Seek medical treatment in case of complaints.
Ingestion:	Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

#### 5: FIRE FIGHTING MEASURES

Flash Point:	> 38°C.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire. Do not inhale explosion and combustion gases. Burning produces heavy smoke
Extinguishing Media:	In case of fire, use foam, CO <sub>2</sub> , powder halogenated. To cool the containers to use vapour water. Not to use directed water jets on flames.
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:	Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

#### 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:	Store at below 20°C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed. Keep in cool and adequately ventilated area.

## 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:	Liquid
Colour:	Clear
Odour:	Characteristic
Flash Point (closed cup) (°C):	> 38
Boiling Point (°C):	> 139
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.00 – 1.10
Water Solubility:	Reacts with water

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Excessive heating. Humidity. Keep away from open flames, sparks and other sources of ignition.
Chemical Incompatibility:	Oxidizing agents. Avoid contact with combustible materials. The product could catch fire.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire. Exothermic reactions in the presence of oxidizing agents.



## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD50, rat > 2000 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.
Degradability:	No information available.
Bioaccumulation:	No information available.
Acute Fish Toxicity:	Harmful 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:	Disposal must be made according to official regulations.

## 14: TRANSPORT INFORMATION



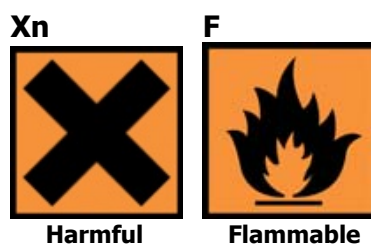
UN/SI Number: 1866

Transport Name: Resin solution, flammable.

Transport Type:		Class:	Pack Group:	Item:	Marine Pollutant:
At Sea	IMO/IMDG	3	III		No
Air Transport	IATA/ICAO	3	III		
At land	RID/ADR	3	III		

## 15: REGULATORY INFORMATION

### Hazard Label Data:



### Risk Phrases:

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitization by skin contact.

### Safety Phrases:

S15	Keep away from heat.
S16	Keep away from sources of ignition - No smoking.
S17	Keep away from combustible material.
S23	Don not breather fumes.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S41	In case of fire and/or explosion do not breathe fumes.
S43	In case of fire use foam, CO <sub>2</sub> , powder halogenated. To cool the containers to use vapour water. Not to use directed water jets on flames
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure - obtain special instructions before use.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.

## 16: OTHER INFORMATION

Issue Date: 23/08/2017 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.