



CODE: 457001

REVISION: 04

DATE: 20 April 2023

# UNY MARINE

## Product Description

**UNY MARINE** based on polyurethane resin, provides excellent gloss retention, durability and chemical resistance, etc.

It is suitable for the protection of the outside of superstructures of steel ships and decks.

## Product Information

<b>Type</b>	Polyurethane finish						
<b>Recommended Use</b>	Glossy finish coat on outside of superstructures, decks and fittings						
<b>Mixing Ratio</b>	Base : Hardener = 80 : 20 (by volume)						
<b>Colour</b>	Please consult the standard marine colour card on our website						
<b>Flash Point</b>	Base : 23°C Hardener : 29.5°C						
<b>Density</b>	1.25 G/ml						
<b>Volume Solids (VS)</b>	50 ± 2%						
<b>VOC</b>	475 G/l (EPA Method 24)						
<b>Coverage (Theoretical)</b>	20.0 - 10.0 m <sup>2</sup> /l						
<b>Wet Film Thickness</b>	50 - 100 μm						
<b>Dry Film Thickness</b>	25 - 50 μm						
<b>Drying Time</b> (at D.F.T. 50μm)	Temperature	-5°C	0°C	5°C	10°C	20°C	30°C
	Surface Dry	120 mins	80 mins	50 mins	30 mins	20 mins	10 mins
	Hard Dry	30 hrs	20 hrs	12 hrs	8 hrs	6 hrs	4 hrs
<b>Painting Interval</b> (at D.F.T. 50μm)	Minimum	14 hrs	12 hrs	8 hrs	6 hrs	4 hrs	2 hrs
	Maximum*	-	-	-	-	-	-
<b>Pot Life</b>		24 hrs	24 hrs	24 hrs	20 hrs	16 hrs	8 hrs
<b>Thinner</b>	Urethane Thinner A						
<b>Method of Application</b>	Airless spray, Brush, Roller						
<b>Condition of Application</b>	Temperature	: Minimum -5°C					
	Humidity	: Maximum 85 % R.H.					
	For Airless spray:						
	Tip No.	: GRACO 515, 615, 715, 813					
	Paint output pressure	: 11.7 - 14.7 MPa					
	Spray Speed	: 80 - 100 cm/sec					
	Viscosity	: 25 - 35 sec (Ford Cup No.4)					
Thinning	: 0 - 20 % by volume						

### Product Information (continued)

<b>Recommended Surface Preparation</b>	The surface to be painted must be clean, free from rust, dirt, oil, grease or other foreign matter, using power wash, detergent or solvent wipes.
<b>Preferable Preceding Coats</b>	Bannoh 500 R, Bannoh 1500 RZ, Umeguard SX
<b>Preferable Subsequent Coats</b>	Unymarine
<b>Packaging</b>	Two pack product
<b>Pack Size</b>	1 litre; 5 litre; 20 litre

### Notes

- \*Please kindly refer to the technical specification.
- Prior to use, consult the Safety Data Sheet (SDS) and follow the health and safety instructions. Precautionary notice is stated on the SDS and on the product label.
- Please handle with care, Hardener may reduce the performance when in contact with moisture.
- Store in dry, cool, shaded and well ventilated area. During storage, take highest caution for the product not to be affected by moisture. Even the water retention on top of the container (lid side) should be avoided.
- Ventilation shall be carried out during and after the coating application until the applied paint is fully cured.
- It may be difficult to hide with 25 micron, depending on the colour type or the colour difference between the topcoat and undercoat.
- Agitate with a power agitator until homogeneous. If necessary, the recommended thinner can be added, however will need to again be agitated until homogeneous. Do not exceed the maximum dilution as specified.
- Excessive thinning will reduce sagging resistance and may affect coating performance.
- Application at temperatures down to -5°C is possible, but curing time takes longer and full cure will be reached when temperature increases.
- Hardener once opened is recommended to be used as soon as possible. When storing, make sure to tightly seal the container and store in a cool and dry place.
- Density, VS and VOC contents are measured from product samples without thinning.
- For application condition and any other information, please consult with your local Dekro office.

### Technical Data (at 50µm)

Item		Temp (°C)									
		-10	-5	0	5	10	15	20	25	30	35
<b>Set to touch</b>		240m	120m	80m	50m	30m	25m	20m	15m	10m	8m
<b>Dry to recoat</b>	<b>Min.</b>	18H	14H	12H	8H	6H	5H	4H	3H	2H	1.5H
	<b>Max.</b>	-	-	-	-	-	-	-	-	-	-
<b>Dry to hard</b>		45H	30H	20H	12H	8H	7H	6H	5H	4H	3H
<b>Dry to immerse</b>	<b>Body</b>	-	-	-	-	-	-	-	-	-	-
	<b>Touch-up</b>	-	-	-	-	-	-	-	-	-	-



### **Technical Data (continued)**

<b>Dry to Touch-up</b>	18H	14H	12H	8H	6H	5H	4H	3H	2H	1.5H
<b>Pot life</b>	40H	40H	30H	24H	20H	18H	16H	12H	8H	6H
<b>Shelf life (M)</b>	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
<b>Max. heat resistance</b>	Non-continuous : 120°C									

Abbreviations: Y : Year, M : Month, D : Day, H : Hour, m : Minute

### **Application**

Correct surface preparation is essential for good product performance and all surfaces should be prepared as per the standard Dekro Preparation Specifications. Copies of these are available on request from your nearest Dekro Paints branch and/or stockist or can be downloaded from our website.

### **Safety Instructions**

Always keep out of reach of children and animals.

Wear a suitable dust mask and goggles when preparing surfaces. Ensure good ventilation during application and drying.

If accidental contact with skin, wash immediately with soap and water or a recognised skin cleaner.

If accidental contact with eyes, rinse immediately with plenty of water and seek medical advice.

Harmful if swallowed. Seek medical attention and do not induce vomiting.

### **General**

Different surfaces and environmental conditions require specific painting systems to produce the best possible results.

It is therefore recommended that you contact a Dekro Sales representative for advice on all your painting requirements whenever possible.

The technical data furnished is given to the best of our knowledge and based on controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven product fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.