

# DUROFLEX-PU MARINE ADHESIVE



Polyurethane-based adhesive sealant



## ■ PROPERTIES

Polyurethane-based flexible adhesive with high mechanical strengths. It is resistant to sea (salt) water, neutral, acid or alkaline cleaners, and mineral oils. It has excellent adhesion without the use of any primers to similar and dissimilar materials; it is highly resistant to impact, and resilient to temperature variations. It cures from atmospheric moisture and has a long shelf life.

## ■ ADVANTAGES

- One component.
- A high-standards product.
- Exceptional bonding strength.
- High final strength and flexibility.
- Excellent durability against most chemicals.
- Excellent durability against weather conditions and ageing.

## ■ APPLICATIONS

DUROFLEX-PU MARINE ADHESIVE is perfectly suitable for adhering teak or iroko wood linings onto boat GEL COAT finish. It also creates an unbreakable but flexible bond between similar and dissimilar materials. Use it in ship building, various construction applications and container construction, as well as in any metal seams and joints (automotive applications), and much more.

## ■ USE

### 1. Surface preparation

Remove grease and any oils from all surfaces to be bonded, and thoroughly clean them using DUROSTICK THIN-NER 101, or White Spirit. Remove dirt and dust using the biodegradable cleaner, BIOCLEAR INDUSTRIAL. Before application, surfaces must be completely dry.

The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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### 2. Application

It is recommended to apply DUROFLEX-PU MARINE ADHESIVE in cartridge form, using the DUROSTICK Professional Cartridge Gun. The product is also available in 600ml 'sausage' tube and should be applied using the versatile, Professional cartridge and 'sausage' barrel gun, DUROSEAL 600 of DUROSTICK. Prime all porous surfaces using PRIMER-PU, to ensure an even stronger adhesion. For large area projects apply the adhesive using a 4mm square notched trowel on the adhering surface.

### ■ CLEANING

Clean all tools with THINNER 101 of DUROSTICK or white spirit, immediately after use. Clean your hands from any product residue, before it dries, using the biodegradable Hand Cream BIOCLEAN.

### ■ CONSUMPTION

Depending on the method and thickness of the application each specific bonding requires. For application using a notched trowel, indicatively, for thicknesses of 2mm, the consumption amounts to 600ml/m<sup>2</sup>. For thicknesses of 4mm, the consumption amounts to 1200ml/m<sup>2</sup>.

### ■ SAFETY DIRECTIONS

The product is classified as harmful. It is recommended to keep away from the reach of children. Before use, refer to the cautions on the product packaging or the Safety Data Sheet.

### ■ STORAGE

Store in tightly sealed packages, in dry spaces, for 9 months from production date.

### ■ PACKAGING

Carton box with 12 cartridges of 300ml each one  
Carton box with 15 'sausage' tubes of 600ml each one.

TECHNICAL SPECIFICATIONS (Measurement conditions 23°C and 50% R.H.)	
■ Base	Polyurethane
■ Form-Color	Paste - Gray
■ Application temperature	From +5°C to +40°C
■ Temperature resistance	From -30°C to +90°C
■ A. Non-polymerized material:	
1. Thixotropy	Freestanding (does not sag)
2. Skin formation time	35 min (23°C, 50% R.H.)
3. Curing rate	4mm/day (23°C, 50% R.H.), 9-10mm/7 days
■ B. Polymerized material:	
1. Shore-A hardness	50 ±3 per DIN 53505
2. Modulus (100% stretch for 24h)	> 80%
3. Joint movement capability	20%
4. Tensile strength at break	3.0 N/mm <sup>2</sup> per DIN 53504
5. Tensile strength at 100% elongation	1.4 N/mm <sup>2</sup> per DIN 53504
6. Elongation at break	350% per DIN 53504

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