

4.4 Special application adhesives

DUROFLEX-PU MARINE ADHESIVE Polyurethane based adhesive sealant



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	4 mm/day (23°C, 50% R.H.), 9-10 mm/7 days
B. Polymerized material:	
1. Shore-A hardness	50 ±3 per DIN 53505
2. Modulus at 100% stretch for 24h	>80%
3. Joint movement capability	20%
4. Tensile strength at break	3.0 N/mm² per DIN 53504
5. Tensile strength at 100% elongation	1.4 N/mm² per DIN 53504
6. Elongation at break	350% per DIN 53504

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/m². For thicknesses of 4mm, the consumption amounts to 1200ml/m².

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 Material Safety Data Sheet.

STORAGE

Store in the factory sealed packaging, in dry places, for at least 9 months from production date.

NOTE

After curing, the product is harmless to health.

PACKAGING

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

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 is long lasting and it efficiently cures in humid conditions.

APPLICATIONS

DUROFLEX-PU MARINE ADHESIVE is perfectly suitable for adhering teak or iroko wood linings onto boat GEL COAT finish (pic.1). It also creates an unbreakable but flexible bond between similar and dissimilar materials. Use it in ship building (pic.2), 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 THINNER 101, or White Spirit. Remove dirt and dust using the biodegradable

cleaner, BIOCLEAR INDUSTRIAL. Before application, surfaces must be completely dry.

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 grade caulking 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.

HELPFUL TIP

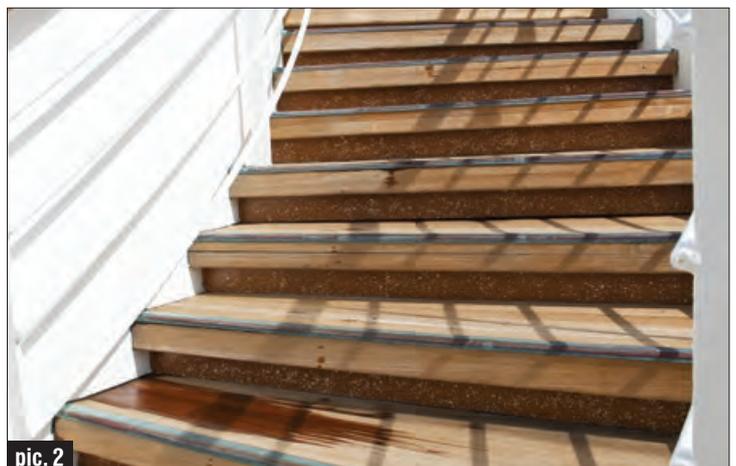
DUROSTICK recommends the application of MS-POLYMER MARINE (p. 152) for sealing the joints of wood decks after their installation using DUROFLEX-PU MARINE ADHESIVE.

CLEANING

Clean all tools, before the product dries, using DUROSTICK THINNER 101 or White spirit. Clean your hands using the biodegradable Hand Cream BIOCLEAR.



pic. 1



pic. 2