



# Product Data Sheet

## Transurethane Shield

### KPC363

#### Product description.

A high gloss polyurethane finish for marine- and industrial environments. The product provides excellent durability and offers high gloss and excellent colour retention in wide range of environment such as offshore structures, petrochemical plants, bridges, processing mills, etc. Can be applied by airless spray as well as by brush and roller.

#### Physical properties.

Colour	KOSSAN Standard Colour / RAL Standard Colour
Texture	High gloss
Volume Solids	60 ±2%, Varies depending on colors
Specific gravity	0.98~1.20 gr/ml (Dependent on colour shade)
Flashpoint	>24°C (mixed product)

	Dry film thickness per coat (μ)	Wet film thickness per coat (μ)	Theoretical spreading rate (m <sup>2</sup> /l)
Range	45 – 70	75 – 110	12.9 – 8.30
Recommended	60	100	9.67

#### Application data.

Mixing ratio By weight, base to hardener: 87.5 to 12.5  
By volume, base to hardener: 6 to 1.

Potlife 10°C: 10 hours, 23°C: 6 hours, 30°C: 4 hours.

Guiding data Airless spray Pressure at nozzle: 120 - 180 bar. Nozzle size: 0.38 - 0.58 mm.  
Spray angle: 40 - 80 degrees.  
Volume of thinner: 0 - 3%.

Guiding data Air spray Pressure: 3 - 5 bar. Nozzle size: 1.2 - 1.5 mm.  
Volume of thinner: 0 - 5%.

Brush/Roller Suitable.  
Volume of thinner: 0 - 5%.

Thinner/Cleaner Transocean PU Thinner 6.04.

Conditions Humidity: below 85% RH.  
Temperature of the paint before application: min: 10°C, max: 30°C.  
Substrate temperature: min: 5°C, max: 35°C.  
The temperature of the substrate should be at least 3°C above the dew point of the air. Air temperatures and relative humidity must be measured in the vicinity of the substrate.

#### Drying and recoating times.

Substrate temperature	Touch dry	Dry to handle	Full cure	Dry to recoat	
				Minimum	Maximum (1)
10 °C	2 hours	8 hours	10 days	24 hours	Indefinite
23 °C	1 hour	4 hours	7 days	12 hours	Indefinite
30 °C	30 minutes	2 hours	5 days	8 hours	Indefinite

- (1) The surface should be dry and free from contaminants prior to overcoating. The best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure intercoat adhesion. When in doubt, consult your nearest Transocean office.

## Surface preparation.

Coated substrates Existing systems should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.  
Oil and grease should be removed by solvent cleaning according to SSPC-SP1.  
Remove salts and dirt by fresh water washing.  
Corroded areas should be repaired first with an appropriate primer system.

## Recommended paint system.

Transurethane Shield can be applied on suitable Transpoxy priming systems. A typical system for atmospheric exposure is shown below.

Recommended KOSSAN Transpoxy Primer	1 x 75~100 $\mu$ dft.
Recommended KOSSAN Transpoxy Intermediate	1 x 75~150 $\mu$ dft.
Transurethane Shield KPC363	1-2 x 50 $\mu$ dft.

## Packing Size

5L-Set (Part A = 4.38L; Part B = 0.62L)  
20L-Set (Part A = 17.50L; Part B = 2.50L)

## Product Limitation

Transurethane Shield KPC363 is not designed for continuous water immersion. For best result in gloss and finish, application by conventional spray is recommended. Gloss level of the dry film may vary depending on the application method. Using a mixture of application methods is not recommended in order to ensure a more consistent finish. Exposure to condensation/water before hard curing may result in the loss of gloss in the paint film. Volume solid values are stated for reference purposes only. Slight variation may occur depending on various factors such as colour and manufacturing tolerances.

## Storage and shelf life.

The product must be stored in accordance with national regulations. The cans are to be kept in a dry, cool, well ventilated space and away from source of heat and ignition. Cans must be kept tightly closed. Shelf life is minimum 1 year in unopened condition.

## Health and safety.

Observe the precautionary notices on the label of the container. A material safety data sheet is available upon request and national or local safety regulations should be followed. This product is intended for use by professional applicators.

As a general rule, avoid skin- and eye contact by wearing overalls, gloves, goggles, mask, etc. Spillage on the skin should immediately be removed by thorough washing with lukewarm water and soap or a suitable industrial cleaner. Eyes should be flushed with fresh water and medical attention sought immediately. Spraying should be carried out under well-ventilated conditions. Avoid inhalation of solvent vapours and paint mist by wearing an air mask.

This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted.

## Disclaimer

*The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product.*

*We reserve the right to change the product without notice.*



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