

Product information



## Two-component epoxy internal coating for tanks and pipelines.



#### Product description

**FORTIDE<sup>®</sup>-TL** is an epoxy internal coating which has been specially designed for tank and pipeline systems, with **outstanding chemical and water resistance**.

FORTIDE<sup>®</sup>-TL features **outstanding hardness** while also providing **good abrasion resistance**.

The **broad range** of **chemical resistance** extends from crude oil through different hydrocarbons, process and wastewater to acids, lyes and brines.

The product is available in both spray and brush variants.

The isocyanate- and solvent-free system ensures **compliance with the most stringent environmental and health and safety requirements**. FORTIDE<sup>®</sup>-TL fulfils the requirements of **ISO 21809-3**, **type 18A**. The coating's durability is a result of its **outstanding chemical resistance** combined with **exceptional hardness**.

FORTIDE<sup>®</sup>-TL is available in different package sizes, which means that a practical and economical size is available depending on the requirements of the project.



## Typical product properties

Property		Unit	Typical value	<b>Required value</b>	Test method	
Туре		-	two components	-	-	
Colour		-	cream white	-		
Recommended minimum layer thickness		μm	≥ 600	-		
Theoretical consumption for 600 $\mu m$ DFT		kg/m² I/m²	0.84 0.62	-		
Indentation resistance (10 N/mm <sup>2</sup> , stamp-ø 1.8mm)	+120 °C (+248 °F)	% of the original thickness	≤ 10	≤ 30		
Cathodic disbondment	+23 °C (+73 °F)		≤ 2	≤ 8	ISO 21809-3	
	+95 °C (+203 °F)	mm	≤ 8	≤ 15		
Hardness	+23 °C (+73 °F)	Shore D	≥ 80	-		
Adhesion	EP on steel		≥ 15	≥ 10	-	
	EP on EP					
Adhesion after hot water immersion (28 d / +95 °C / +203 °F)	EP on steel	МРа	≥ 11	≥7		
	EP on EP	1	≥ 11	≥2		

## **Processing conditions**

Ambient and substrate temperature approx.		+10 °C (+50 °F)	+20 °C (+68 °F)	+40 °C (+104 °F)		
Small package (brush variant)	Pot life ( <b>250 g total mass</b> )	approx. 2.5 h	approx. 37 min.	approx. 10 min.		
	Tack-free	approx. 5 h	approx. 2.5 h	approx. 45 min.		
	durable	approx. 24 h	approx. 10 h	approx. 3 h		
Hot airless spray application						
Ambient and substrate temperature approx.		+10 °C (+50 °F)	+20 °C (+68 °F)	+55 °C (+131 °F)		
Hobbock (hot airless spraying)	Tack-free	approx. 4 h	approx. 2 h	approx. 20 min.		
	durable	approx. 21 h	approx. 5 h	approx. 2 h		
General processing conditions						
Processing temperature	Substrate	$\geq$ +10 °C ( $\geq$ +50 °F); min. +3 °C (+5.4 °F) above the dew point				
	Environment	-40 °C to +50 °C (-40 °F to +122 °F)				
Steel surface	Degree of cleanliness (ISO 8501-1)	min. Sa 2 ½				
	surface roughness (ISO 8503-1)	40 – 100 µm				
Relative humidity		≤ 80 %				

## Ordering information and packaging

Product name	Component	Contents per package approx.		Content per box
	Packaging	[1]	[kg]	[pcs.]
FORTIDE <sup>®</sup> -TL 0.8   Kit	Comp. A / B (cans)	0.6 / 0.2	0.9 / 0.2	12 / 12
FORTIDE <sup>®</sup> -TL 1.2   Kit	Comp. A / B (cans)	0.9 / 0.3	1.3 / 0.3	8 / 8
FORTIDE <sup>®</sup> -TL	Comp. A / B (hobbock)	29 / 29	42 / 30	-
	Comp. A / B (barrel)	207 / 207	304 / 215	-

# Storage

**FORTIDE**<sup>®</sup>-**TL** can be stored in its unopened original packaging for at least 12 months from the date of manufacture. Storage temperature: +5 °C (+41 °F) to +30 °C (+86 °F). Store in a dry and frost-free location.