

TENAX AS 366 teerfrei 6P566

Series 6P566 · Tar-free 1K coating for underwater and repair applications



01 PRODUCT DESCRIPTION

TENAX AS 366 teerfrei 6P566 is a modified, solvent-based one-component coating material based on a hydrocarbon resin with strength-enhancing fillers. It is robust, easy to apply and ideal for the maintenance and repair of old – including tar-containing – underwater coatings. The tar-free material adheres excellently to old, well-cleaned coatings, can be overcoated with itself at any time and is resistant to oil-contaminated water, waste water, sea and brackish water. It is used as a corrosion protection coating for underwater and splash-water zones as well as for damp, atmospherically exposed areas in shipbuilding, steel hydraulic engineering and industry. Not suitable for food areas and drinking-water tanks.

02 PRODUCT PROPERTIES

Binder system	Modified hydrocarbon resin
Adjustment thinner	EP Thinner 5E403 (spray thinning max. 5 wt.-%)
Cleaning thinner	EP Thinner 5E403
Characteristics	 Onecomponent  Underwater-resistant  Corrosion protection  Overcoatable  Repair & maintenance
Color shade	Black, light grey
Gloss	Matt
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from frost and moisture.
Chemical resistance	Resistant to oil-contaminated water, waste water, sea and brackish water (further media on request)
Thermal resistance	Up to approx. +100 °C dry heat up to approx. +40 °C moist or permanent water exposure
Density · DIN EN ISO 2811-1 · +20 °C	Approx. 1.39 g/cm ³
VOC content · IE Directive 2010/75/EU	Approx. 399 g/l
Solid content (vol.-%)	Approx. 67 %
Viscosity · DIN EN ISO 2555 · +20 °C	Approx. 2,900 mPas
Container size	20 l / 27.8 kg (smaller containers on request)

03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	Steel; sound existing coatings
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Surface preparation	Ensure sufficient load-bearing capacity before application. Repair: Blast-clean to Psa 2 per DIN 55928-4, or grind, needle-gun, brush and/or high-pressure wash until loose rust and loose paint layers are removed. All surfaces must be dry and free from contamination and loose particles. New construction: Surface preparation to EN ISO 12944-4. Free from weld spatter, pores, overlaps, burrs, grease, oil and dirt. Blast-clean to Sa 2½, mean roughness Rz approx. 50–70 µm (G or operating mix GS). Optional primer: 1 × 30 µm Tenaxon T 569 (3E569), consumption approx. 100 g/m² at 30 µm DFT.
Coating recommendation	Repair: Directly onto a sound, cleaned substrate or a Psa-2 blast-cleaned existing coating. 1 × 100 µm TENAX AS 366 (brush, spot-fill) or 2 × 125 µm (spray). New construction / blast-cleaned steel: Primer 1 × 30 µm Tenaxon T 569 (3E569) or Epex zinc dust (3E750); then 2–3 × 125 µm TENAX AS 366 (depending on load).
Mixing	Stir thoroughly before use, including bottom and edge zones.
Theoretical consumption	Approx. 5.3 m²/l at 125 µm dry film thickness
Film thickness	100 µm DFT (150 µm WFT) by brush/roller 125 µm DFT (190 µm WFT) by spray
Application method	 Brush  Roller  Airless spraying
Application conditions	 Object temperature +5 °C to +30 °C Below +5 °C the drying time increases considerably (overcoating then only after at least 48 h). Physically drying – ensure good ventilation during and after application.
Recoating interval (with itself)	Min. 16 h; overcoatable with itself at any time, no maximum recoating time.
DRYING	
Dust-dry (TG 1)	Approx. 8 h
Walkable	Approx. 16 h
Fully loadable	Approx. 3 days
Compatible systems	Primer: Tenaxon T 569 (3E569) Primer: Epex zinc dust (3E750) Further applications on request.

04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

MODIFIED BY

24.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

24.08.2026 – Stefan Eisenmenger, Product Management