

Public-law institution jointly founded by the
federal states and the Federation

**European Technical Assessment Body
for construction products**



European Technical Assessment

**ETA-23/0865
of 24 July 2025**

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

ANTICORIT RPW 5901

Product family
to which the construction product belongs

Special filling products for post-tensioning kits

Manufacturer

DYWIDAG-Systems International GmbH
Neuhofweg 5
85716 Unterschleißheim
GERMANY

Manufacturing plant

Werk 1, Werk 2

This European Technical Assessment
contains

4 pages and no annexes

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 160027-00-0301

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.

Specific part

1 Technical description of the product

The wax ANTICORIT RPW 5901 is a filling material for use in post tensioning kits in accordance with EAD 160027-00-0301. It is solid at room temperature and is heated for injection.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The intended use of ANTICORIT RPW 5901 as a filling product is to ensure the permanent corrosion protection of steel tension members in post-tensioning kits.

According to the manufacturer, it is classified as a wax.

According to EAD 160027-00-0301, section 1.2.2.2, the state of knowledge and the state of the art in structural engineering are not sufficient to reliably determine a service life of 100 years with the test and assessment methods provided for in this EAD.

The wax assessed with this ETA is therefore only suitable for:

- The use with replaceable tendons
- Individually protected and sheathed strands (monostrands)
- Tendons where the wax is verifiable and fully replaceable

The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the structure.

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

These essential characteristics relate to ensuring the permanent corrosion protection of the steel tension members of post-tensioning kits, which ensure the actual mechanical strength and stability of the structure.

No.	Essential characteristic	Performance
1-12	Not applicable (as only for grease)	
13	Congealing point	Requirement fulfilled
14	Heat resistance, dropping point	65°C
15	Heat resistance, flash point	272°C
16	Consistency	1,1mm
17	Cold resistance	No cracks at -40°C
18	Stability	0,6%
19	Oxidation stability	Requirement fulfilled
20	Corrosion protection I	Class 1A
21	Corrosion protection II	No corrosion after 168h
22	Corrosion protection III	No corrosion after 1.000h
23	Corrosion protection IV	No Emulsion

24	Content of aggressive elements	Requirement fulfilled
25	Viscosity	16,8mm ² /s at 100°C
26	Possible interaction with PE-duct	PE-Tube: PE100; 90x5,1; SDR 17,6; DIN 8074/8075 Alteration of: - tensile strength: +4,0% - elongation: +5,1% - volume: +0,1%
27-28	Not applicable (as only for grout)	

3.2 Safety in case of fire (BWR 2)

No.	Essential characteristic	Performance
29	Reaction to fire	No performance assessed

3.3 Hygiene, health and the environment (BWR 3)

No.	Essential characteristic	Performance
30	Content, emission and/or release of dangerous substances	No performance assessed

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to EAD No. 160027-00-0301, the applicable European legal act is: [1998/0456/EG].

The system to be applied is: 1+.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan from 23.07.2025. This is deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 24 July 2025 by Deutsches Institut für Bautechnik

LBD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Ascher