



BUILDING RESEARCH INSTITUTE - CERTIFICATION COMPANY Ltd.
 Authorized and Notified Body Certification Body for Management Systems and Quality Buildings Testing Laboratory
Certification Body for Products, Qualification and EPD

Annex No. 1 to certificate No. VUPS-16-0083

**CONFORMITY ASSESSMENT ACCORDING TECHNICAL SPECIFICATION:
 TKP PART 26 TUNNELS - TECHNICAL QUALITY CONDITIONS OF MDVRR
 SR WITH VALIDITY FROM 01/07/2015**

Producer: **Knauf Praha, spol. s r.o.** ID : 16191102
 Mladoboleslavská 949, 197 00 Praha 9 - Kbely

Product: **Knauf TS 750** - Two compound epoxy coating.

Intended use: Coating for surface protection of concrete structures.

Tab No. 1: Test results and assessment of product properties

Property / characteristic	Testing standard	Requirements of TKP 26 MDVRR SR	Test results, classes / property values	conformity assessment/report
Reaction to fire	STN EN 13501-1+A1	Classification	A1	complies/ o.s.VÚPS
Cross-cut test	STN EN ISO 2409	< GT2	GT0, classification 0	complies/A199/2015
Carbon dioxide permeability	STN EN 1062-6	s_d > 50 m	s_d = 1919 m	complies/A102/2011
Water vapour permeability - class 1	STN EN ISO 7783-2	s_d < 4 m	s_d = 2,547 m	complies/A141/2010
Liquid water permeability	STN EN 1062-3	w < 0,1 kg.m⁻².h^{-0,5}	w=0,003 kg.m⁻².h^{-0,5}	complies/A137/2007
Freeze-thaw cycling with de-icing salt immersion	STN EN 13687-1	> 2,0 MPa	4,7 MPa	complies/90-16-0001
Thunder-shower cycling (thermal shock)	STN EN 13687-2	> 2,0 MPa	4,7 MPa	complies/90-16-0001
Thermal cycling without de-icing salt impact	STN EN 13687-3	> 2,0 MPa	5,4 MPa	complies/90-16-0001
Resistance to temperature shock	STN EN 13687-5	no visual defects	no visual defects, 4,6 MPa	complies/90-16-0001
Resistance to severe chemical attack	STN EN 13529	not more than 50%	less than 20 %	complies/A187/2010
Adhesion - pull out test - concrete tunnel wall	STN 73 6242	> 2,0 MPa	3,9 MPa	complies/489/10/AL
Possibility of other layers of coating application - color highlighting and connecting of colors	STN 73 6242	---	---	---
Easiness of maintenance	STN 73 6242	demonstrate at reference section	---	---
Durability of reflective layers (maintaining of required properties)	ZTKP	according requirements of client	---	---
Linear changes (shrinkage)	STN EN 12617-1	< 0,3 %	not assessed	not assessed DFT ¹⁾ < 0,3 mm*
Resistance to liquids - 30 day exposure	STN EN ISO 2812-1	no visual defects	no visual changes	complies/A201/2010
Abrasion resistance, wheel CS 10 with weight 1000g at 1000 cycles	ASTM D4060	wasting not more than 120 mg	57,7 mg	complies/T300/264-2
Crack bridging	STN EN 1062-7/ met. A	> 0,1 mm, class A1	> 0,1 mm, class A1	complies/020-034396

¹⁾ DFT-Dry Film Thickness ; * no requirement of EN 1504-2, TKP 26 MDVRR SR

This document has been issued on the basis of reviewing the testing reports of assessed product, performed by accredited testing laboratories and declares, that this product has the properties, which are described above.

Ing. Lubomír Kelem, CSc.

Head of Certification body for products and processes

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