TEST REPORT

TÜV SÜD Industrie Service GmbH
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Report No.:	**25-Y2034-3**
Client:	YSHIELD GmbH & Co. KG Rotthofer Straße 1 D-94099 Ruhstorf
Date of receipt:	27.06.2024
Internal laboratory no.:	20240620919
Name of product:	**YSHIELD HSF54**
Project:	TÜV SÜD re-certification “Low emissions, Pollutant tested and production monitored“ of the product YSHIELD HSF54
Test standards:	- General award principles TM-01 edition 01-2022 - Test standard TM-07 "Dispersion paints" edition 01-2022
Testing period:	27.06.2024 – 09.08.2024

Results:

All requirements for the award of the TÜV SÜD mark "Low emissions, Pollutant tested and Production monitored" for the product group TM 07 "Dispersion paints" edition 01-2022 were met.

Date: 2025-07-21

Our reference:
IS-USL-MUC/HS
test report 25-Y2034-1.docx

This Document consits of 3 pages.

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The test results refer exclusively to the units under test.

(Dipl.-Ing. (FH) Holger Struwe)
Project leader building products

(Dr. Maria Wagenstaller)
Technical expert building products

1 Sample Information

Type of product:	Shielding paint
Sample name:	YSHIELD HSF54
Place of production:	YSHIELD GmbH & Co. KG, Rotthofer Straße 1, D-94099 Ruhstorf
Batch No.:	542406240005
Date of production:	24.06.2024
Sampler:	Mr. Danner (YSHIELD)
Specification of sample:	0,5 l PE-can

2 Declaration by the applicant

With the manufacturer's declaration dating from 2024-06-26, the manufacturer confirmed compliance with the requirements of the general award principles TM 01 edition 01-2022.

3 Results

3.1 Conformity check

The review of materials in terms of their conformity with the test standard TM 01 was performed based on documents supplied by the company. In the context of the review of the manufacturer- and supplier-information, the statement of the applicant is confirmed, that the requirement of the test standard TM 01 for the product are fulfilled.
The product HSF 54 differs from the formulation of the product PRO 54 only by a different pigment (natural graphite). PRO 54 was successfully tested on 2024-08-26 according to the test standard TM-07 Edition 01-2022 (Test Report No.: 24-Y2034-2). For this reason, only the following parameters were tested:

- Heavy metals
- TVOC

3.2 Production Facility Inspection

The factory inspection of the production site in Ruhstorf was done by our expert Mr. Struwe on 2023/11/06. The audit showed that a consistent product quality can be guaranteed.

3.3 Measured test results

3.3.1 Heavy metals by Nitric- / hydrofluoric acid digestion

Parameter	**Testing method**	**RL[1]** [mg/kg]	**Limit value[2]** [mg/kg]	**Measured value** [mg/kg]
Arsenic	DIN EN ISO 17294-2:2017-01	1	≤ 50	< RL
Lead		1	≤ 100	< RL
Cadmium		1	≤ 2	< RL
Mercury		1	≤ 2	< RL

3.3.2 Heavy metals by Migration according EN 71-3

Parameter	Testing method	RL[1] [mg/kg]	Limit value[2] [mg/kg]	Measured value [mg/kg]
Arsenic	DIN EN 71-3:2021-06	1	≤ 5	< RL
Lead		1	≤ 20	< RL
Cadmium		1	≤ 5	< RL
Chromium		1	≤ 5	1,4
Cobalt		1	≤ 20	< RL
Nickel		1	≤ 20	3
Mercury		1	≤ 2	< RL
Tin		1	≤ 10	< RL

3.3.3 Volatile organic compounds

Parameter	Testing method	RL[1] [mg/kg]	Limit value[2] [mg/kg]	Measured value [mg/kg]
Total VOC	DIN EN ISO 17895:2005-06 (Headspace-GC-MS)	100	≤ 500	177

Notes:
Unless otherwise agreed, declared for the individual case, or normatively specified, PASS or FAIL verdicts are given based on the measured value without any considerations of measurement uncertainties (decision rule).
Every test method has a measurement uncertainty which has been evaluated by the laboratory and is available on request. By taking measurement uncertainties into account, it might happen that measured values can neither be assessed as PASS nor as FAIL. Please inform us if you intend to use a different decision rule as part of your own conformity assessment. We are glad to provide you with the relevant information on the expanded measurement uncertainty.

[1] RL = report limit
[2] limit value according to guideline TÜV SÜD TM-07 „Emulsion paints“ Edition 01-2022