



Service specifications Release: 2022-01-10

Our service specifications encompasses our scope of testing, divided into the following departments:

Chemical analysis, testing of coating materials and testing technology and application technology.

We calculate all further activities such as consulting with our hourly rates:	
general management, laboratory management	150 €
Engineer	120 €
Building material tester/laboratory technician	100 €

Travel times to objects are charged at our hourly rates.
The kilometre rate is 0,50 €/km.

We adjust the price for your test report individually according to your offer.

Tests are performed according to the specified standards, with the currently valid status, or according to an individual agreement.

For initial consultancy, please contact:

Email: info@dr-rmi.de

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You can find out more about us on our website <http://www.dr-rmi.de>.

Tests accredited according to ISO 17025 at the Dr. Robert Murjahn Institute are marked in the following tables with an asterisk (*).

For more information with respect to our accreditation, please check out our [accreditation certificate with the attachment to the accreditation certificate](#) on our homepage.



Tests in the field of chemical analysis	Standard	Remark	Price excl. VAT
Chromate content	DIN EN 196-10		90 €
Solid content	DIN EN ISO 3251*		40 €
Flashpoint	DIN EN ISO 1523* DIN EN ISO 13736*		195 €
Formaldehyde content / free formaldehyde (photometric method)	VdL-Richtlinie 03*		80 €
Formaldehyde content / total formaldehyde (photometric method)	VdL-Richtlinie 03*		85 €
FT-IR spectroscopy without sample preparation	PV 175*		135 €
FT-IR spectroscopy with sample preparation	PV 175*		210 €
GC/MS analysis (identification VOC/SVOC, qualitative method)	PV 384		on request
Loss on ignition, water of hydration and ash content	PV 93*		60 €
HPLC analysis isothiazolinones (liquid sample)	PV 232*		470 €
HPLC analysis zinc-pyrithione (liquid sample)	PV 273		470 €
HPLC analysis film preservatives, (liquid sample)	PV 288	customary fungicidal and algicidal active ingredients in coatings mentioned in the offer	from 520 €
HPLC analysis solid/extraction (preservatives)	PV 288	customary fungicidal and algicidal active ingredients in coatings mentioned in the offer	from 645 €
Leaching / laboratory test for leaching of substances from coatings LC/MS/MS	DIN EN 16105	3 periods	1.825 €
		6 periods	3.355 €
		9 periods	4.890 €
		Preparation of detailed test report	400 €



Tests in the field of chemical analysis	Standard	Remark	Price excl. VAT
Identification of the film preservatives carbendazim, dichloroethylisothiazolinone, diuron, irgarol, 3-iodo-2-propynylbutyl-carbamate (IPBC), isoproturon, octylisothiazolinone, terbutryn, thiabendazole in water samples by LC/MS/MS.	based on DIN 38407-36	customary fungicidal and algicidal active ingredients in coatings mentioned in the offer	1 sample 170 € from 5 samples 150 €/sample
Identification of the pot preservatives methylisothiazolinone, benzisothiazolinone, and chloromethylisothiazolinone in water samples by LC/MS/MS.	based on DIN 38407-36	customary fungicidal and algicidal active ingredients in coatings mentioned in the offer	1 sample 170 € from 5 samples 150 €/sample
Microscopic examination (e.g. layer thickness measurement)	PV 251*		from 130 € depending on workload
Emission chamber measurement including evaluation of the results according to the AgBB scheme (VOC, SVOC and aldehydes)	DIN EN 16516* DIN EN 16402* DIN EN ISO 16000-9* DIN ISO 16000-6*; PV 250* based on DIN ISO 16000-3 or according to DIBt approval principles	Per sample triplicate determination after 3, 7 and 28 days	1 sample 2.300 € 2-4 samples 2.150 €/sample from 5 samples 2.050 €/sample
		Preparation of a test report according to AgBB scheme	400 €
		Preparation of a test report with AgBB scheme and the French evaluation scheme 2011-321	500 €
pH value of eluates and aqueous solutions	EN ISO 10523	Staggered prices	1 sample 30 € from 2. sample 15 €/sample
pH value of raw materials and coating materials	DIN EN ISO 19396-1	Staggered prices	1 sample 30 € from 2. sample 15 €/sample
X-ray fluorescence analysis/ XRF (quantitative determination of magnesium, iron, titanium, silicon, zinc, aluminium, calcium - further elements on request)	PV 394		200 €
Salt content / Ion chromatography (Salts harmful to buildings: sulfate, chloride, nitrate)	PV 293		70 €
Thermogravimetries (TGA/DSC)	DIN 51006		105 €



Tests in the field of analytics	Standard	Remark	Price excl. VAT
VOC content (in-can) for waterborne emulsion paints	DIN EN ISO 17895*		360 €
VOC content (differential method)	DIN EN ISO 11890-1		140 €
VOC content (in-can) / gas chromatography	DIN EN ISO 11890-2*		500 €
SVOC content (in-can) / gas chromatography	DIN EN ISO 11890-2*		500 €
Full analysis (solid content, loss on ignition, fillers, pigments, possibly water glass solid content)	PV 214		on request
Karl Fischer titration (determination of water content)	PV 294		50 €



Tests in the field of testing technology of coating materials	Standard / SOP	Remark	Price excl. VAT
Resistance to liquids	DIN EN 2812-3		325 €
Hiding power including density (one spreading rate)	DIN EN ISO 6504-3*	incl. classification according to DIN EN 13300	170 €
Hiding power (any further spreading rate)	DIN EN ISO 6504-3*	incl. classification according to DIN EN 13300	55 €
Density	DIN EN ISO 2811-1* DIN EN ISO 2811-3*		50 €
Gloss measurement	DIN EN ISO 2813*		55 €
Color distance measurement	DIN EN ISO 11664-4		115 €
Determination of the grain fineness	DIN EN ISO 1524		75 €
Contact angle measurement	DIN EN 828		350 €
Minimum film forming temperature	DIN ISO 2115		280 €
Wet scrub resistance	DIN EN ISO 11998*	incl. classification according to DIN EN 13300	195 €
Layer thickness	DIN EN ISO 2808*		85 €
Taber test	DIN EN ISO 7784-2		220 €
Dry film thickness	DIN EN ISO 2811-1* DIN EN ISO 2811-3* DIN EN ISO 11998* DIN EN 1062-1		105 €
Water vapor permeability (sd value)	EN ISO 7783*	incl. classification according to DIN EN 1062-1	410 €
Water permeability (w-value)	DIN EN ISO 1062-3* ETAG 004*	incl. classification according to DIN EN 1062-1	460 €



Tests in the field of testing and application technology	Standard / SOP	Remark	Price excl. VAT
Bending moment facade systems (3 point)	DIN 18516		130 €
Bending stress Insulation materials	DIN EN 12089		130 €
Blister test	DIN ISO 6270-1*	240 h, without crosscut, degree of blistering, flaking and cracking	180 €
	DIN ISO 6270-2		180 €
Modulus of elasticity in compression test	DIN EN 13412		205 €
Pull-out strength attachment point VHF systems	DIN 18516		190 €
Flexural strength	DIN EN 1015-11		130 €
Compressive strength	DIN EN 1015-11		75 €
Compressive strength under compression, insulation material	DIN EN 826		130 €
Tensile bond strength - Mortars and adhesives for ceramic tiles	DIN EN 12004-2*	without sample preparation	355 €
Tensile bond strength between - base coat - thermal insulation material - Adhesive-substrate - Adhesive - thermal insulation material - Top coat- base coat	EAD 040083-00-0404*	without sample preparation	355 €
	ETAG 004*		355 €
Adhesion strength by pull r-off test Products and systems for the protection and repair of concrete structures	DIN EN 1542*	without sample preparation	355 €
Tensile bond strength between plaster and substrate	DIN EN 1015-12*	without sample preparation	355 €
Adhesion strength by pull -off test on coating materials	DIN EN ISO 4624*	without sample preparation	355 €
Tensile bond strength between adhesive compound/adhesive mortar and Thermal insulation material as well as between base coat and thermal insulation material	DIN EN 13494*	without sample preparation	355 €
Tensile test free films	DIN EN ISO 527-1		500 €
	DIN EN ISO 527-3		500 €
Dry bulk density of hardened mortar	DIN EN 1015-10		70 €



Tests in department testing technology and application technology	Standard	Remark	Price excl. VAT
Fresh mortar - Consistency (with spreading table) - Fresh mortar bulk density - - Air content	DIN EN 1015-3 DIN EN 1015-6 DIN EN 1015-7	All three (3?) determinations together	180 €
Freeze/thaw cycling/ Thermal compatibility	ETAG 004 DIN EN 13687-3 DIN EN 12371 DIN EN ISO 10545-12 DIN EN 12004-2	Further stressing cycles on request	on request
Cross-cut test	DIN EN ISO 2409*	3-fold determination	80 €
Glass fabric testing	DIN EN 13496		740 €
	ETAG 004		740 €
Calorimetry	EN ISO 1716	5-fold determination	565 €
Grain size distribution, Retsch	DIN EN 1015-1		140 €
QUV stressing (artificial weathering) Test specimen: 75 mm x 150 mm x max.10 mm	EN ISO 16474-3	500 h - 1 sample	190 €
		500 h - 3 samples	320 €
		2000 h - 3 samples	900 €
Crack bridging test - static	EN 1062-7*		from 2.000 €
Crack bridging test - dynamic	EN 1062-7*		from 2.500 €
	Rili SIB		from 2.500 €
Bulk density insulation materials	DIN EN 1602		120 €
Slip resistance properties - Determination of coefficient of sliding friction	DIN 51131		240 €
Anti-slip properties - Inclined plane	DIN 51130		360 €
Salt spray test (neutral)	DIN EN ISO 9227*	480 h - 3 samples	180 €
Peeling test	DIN EN ISO 22631		265 €
Shear strength of insulation materials	DIN EN 12090		385 €



Tests in department testing technology and application technology	Standard	Remark	Price excl. VAT
Bulk density	DIN EN 459-2		120 €
	DIN EN 1097-3		120 €
Shrinkage and expansion	DIN EN 12617-4		240 €
Visual assessment of degree of blistering	DIN EN ISO 4628-2*	Per sheet metal	20 €
Visual assessment of degree of flaking	DIN EN ISO 4628-5*	Per sheet metal	20 €
Visual assessment of degree of rusting	DIN EN ISO 4628-3*	Per sheet metal	20 €
Visual assessment of degree of cracking	DIN EN ISO 4628-4*	Per sheet metal	20 €
Visual assessment of corrosion on a scratch (including scratch application)	DIN EN ISO 12944-6*	Per sheet metal	100 €
Thermal conductivity	DIN EN 12667		240 €
Water absorption on insulation materials	DIN EN 1609		300 €
	DIN EN 29767		300 €
	DIN EN 12087		445 €
Water absorption carrier plate VHF system	based on DIN EN 13755		375 €
Xenon stressing Test sample : 50 mm x 100 mm x max.10 mm	DIN ISO EN 16474-2	500 h - 1 sample	220 €
		500 h - 3 samples	410 €
		2000 h - 3 samples	1.250 €
Tensile strength perpendicular to faces insulation materials	DIN EN 1607*	without sample preparation	405 €