

VIASOL UNIVERSAL HBV voltex SR

Slip resistant, conductive, highly chemically resistant epoxy resin based coating system, hard-wearing with very good mechanical and chemical properties, conductivity according to DIN EN 1081 and DIN EN 61340-4-1.

Application fields

| | | | |
|-------------------|------------------|-------------------------|--------------|
| Chemical Industry | High bay storage | Secondary containment | Laboratories |
| Production areas | Workshops | Pharmaceutical Industry | Warehouses |

System build-up

| | |
|---|---|
| VIASOL EP-C536 N TOP COAT |  |
| VIASOL EP-C546 AS WEAR COAT |  |
| VIASOL EP-E436 CONDUCTIVE LAYER |  |
| VIASOL EP-C500 SCRATCH COAT |  |
| VIASOL EP-T703 PRIMER |  |



System highlights

2.0 - 4.5 mm System thickness



Capable of bearing high mechanical loads



High abrasion resistance



Slip resistant ca. R10 / R11 / R12



Hygienic (ISEGA certified)



Very good chemical resistance



Conductivity acc. DIN EN 1081, DIN EN 61340-4-1

System pictures



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Application and Consumption

| Layer | Product | Consumption (kg/m ²) | Sand broadcasting (kg/m ²) | Thickness (mm) | Application |
|---|--|----------------------------------|---|----------------|--|
| Top coat, highly chemically resistant | VIASOL EP-C536 N | 0.55 – 1.0 | none | 0.5 – 0.9 | Rubber squeegee, roller |
| Wear coat, broadcasted with SIC or SIC/QS mix | VIASOL EP-C546 AS | 2,0 – 3,0 | SIC or SIC/QS-mix ¹ SIC F36, F24 in excess ² | 1.5 – 4.5 | notched trowel or squeegee + spike roller |
| Conductive layer, incl. copper tape | VIASOL EP-E436 | 0,08 – 0,1 | none | 0.06 – 0.08 | roller, squeegee + roller |
| Optional: Scratch coat, levelling layer | VIASOL EP-C500 (fillable 10-20% with VIASOL QNV0) | 0,8 – 2,0 (+ 0.08 – 0.4 QNV0) | none | 0.5 – 2.0 | trowel or rubber squeegee / notched trowel or squeegee |
| Primer | VIASOL EP-T703 | 0,3 – 0,5 | Optional: QS (0,3-0,8 mm) Ca. 0.5 | 0.2 – 0.3 | Rubber squeegee, roller |
| Substrate | Cementitious substrates according to the appropriate standards and approvals must be capable of bearing loads and be free of cracks and voids. Pull-off strength $\geq 1.5 \text{ N/mm}^2$, residual moisture content $< 4 \text{ \%}$ -CM, with higher residual moisture and on substrates with moisture from the backside special measures must be taken or a damp proof membrane must be installed. Substrate preparation e.g. grinding or shot blasting, sweeping and vacuum-cleaning is mandatory. Consumptions are calculated with VIASOL quartz sands and fillers. Usage of other quartz sands and fillers can cause changes of consumption and technical data | | | | |
| Note | Detailed application instructions are available upon request or refer to the technical product data sheet. ¹ SIC/QS-mix: Share of quartz (0.3-0.8 mm) added to SIC up to 20%. ² Slip resistance: VIASOL SIC F36 (0.4-0.6 mm): Ca. R10/R11, VIASOL SIC F24 (0.6-0.85 mm): Ca. R11/R12; Slip resistance can be adapted by different material consumptions of the top coat. | | | | |

Technical data

| Property | Standard | Result |
|----------------------------|--|--|
| Conductivity | EN 1081 EN 61340-4-1 | $\leq 10^6 \Omega \text{ (Rg)}$ $\leq 10^9 \Omega \text{ (Rg)}$ |
| | (EN 61340-4-5 only with polymeric dispersion Jontec ESD) | (< 100 Volt (body voltage)) |
| Shore-Hardness | EN ISO 868 | D 60 after 28 d |
| Adhesive strength | EN ISO 4624 | $> 2,0 \text{ N/mm}^2$ (concrete failure) |
| Impact strength | EN 13813 | $\geq 4 \text{ Nm}$ (IR4) |
| Wear resistance (Taber) | EN ISO 5470-1 | $\leq 75 \text{ mg}$ |
| Chemical resistance | EN ISO 2812-1 | Test liquids DiBt: 1, 1a, 3, 3b, 4, 4a, 4c, 5, 5a, 5b, 6, 6b, 7, 7a, 7b, 8, 8a, 9, 9a, 10, 11, 12, 13, 14, 15a (more upon request) |
| Solvent free / Total solid | Test method „Deutsche Bauchemie“ | $\leq 1 \text{ \%}$ |
| Fire resistance | DIN EN 13501-1 | B _{ff} -s1 |

Remark: For further information, please refer to the product data sheets or contact our technical service. All data are approximate values. Therefore, no liability claims can be derived from the system data sheet. As all VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.viacor.de or contact us directly)– all technical information is subject to change without prior notice

Manufacturer: