

ROMEX®-FLOOR COATINGS

BECAUSE OUR EXPERIENCE MEANS YOUR SUCCESS

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QUALITÄT
MADE IN GERMANY

ROMEX®



ONE OF THE WORLD'S LEADING COATINGS MANUFACTURERS FOR OVER 35 YEARS

Since our foundation in 1989, we have specialized in the development, production and distribution of high-quality synthetic resin coating systems. In the field of object processing, we specialize in the production of industrial floor coatings based on epoxy resin (EP) and polyurethane (PU) for large-scale industrial projects. In cooperation with our contractors, we offer our customers the highest level of safety through consultation and supervised application. This also applies to project execution with our bedding and jointing systems for pavements and slabs.

As a pioneer in innovative jointing systems, we realize challenging construction projects worldwide through individual consultation, sample surfaces, site instruction and personal support up to final acceptance. We are proud of our groundbreaking innovations and award-winning products, which have been honored with the Galabau Innovation Award, the VCI Special Award for Medium-Sized Companies, and the renowned BHB Industry Award, among others.

Our goal is to continually develop our products and concepts to create new, innovative and sustainable solutions for contractors and builders. We want to continue to be your first point of contact for high-quality coating solutions.

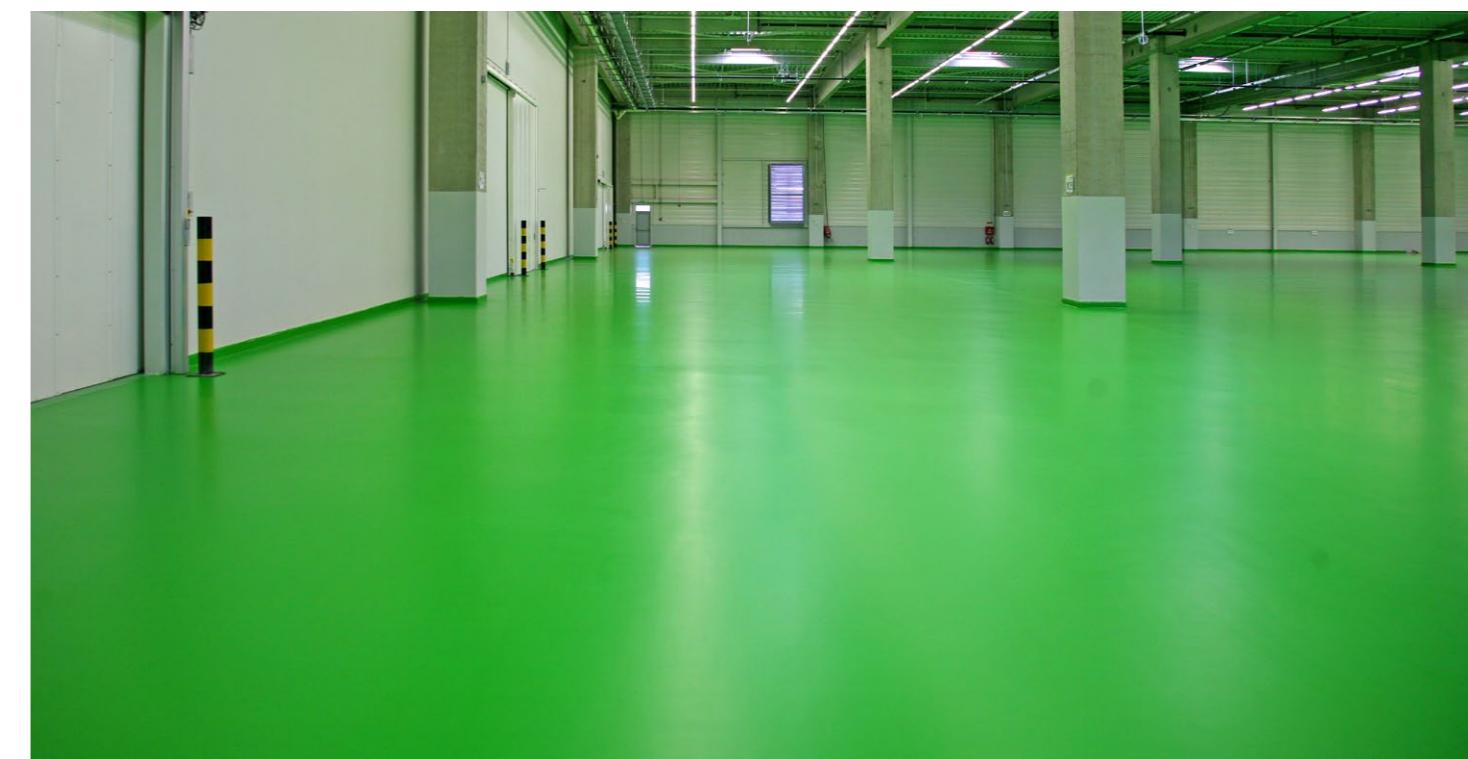
Fields of application

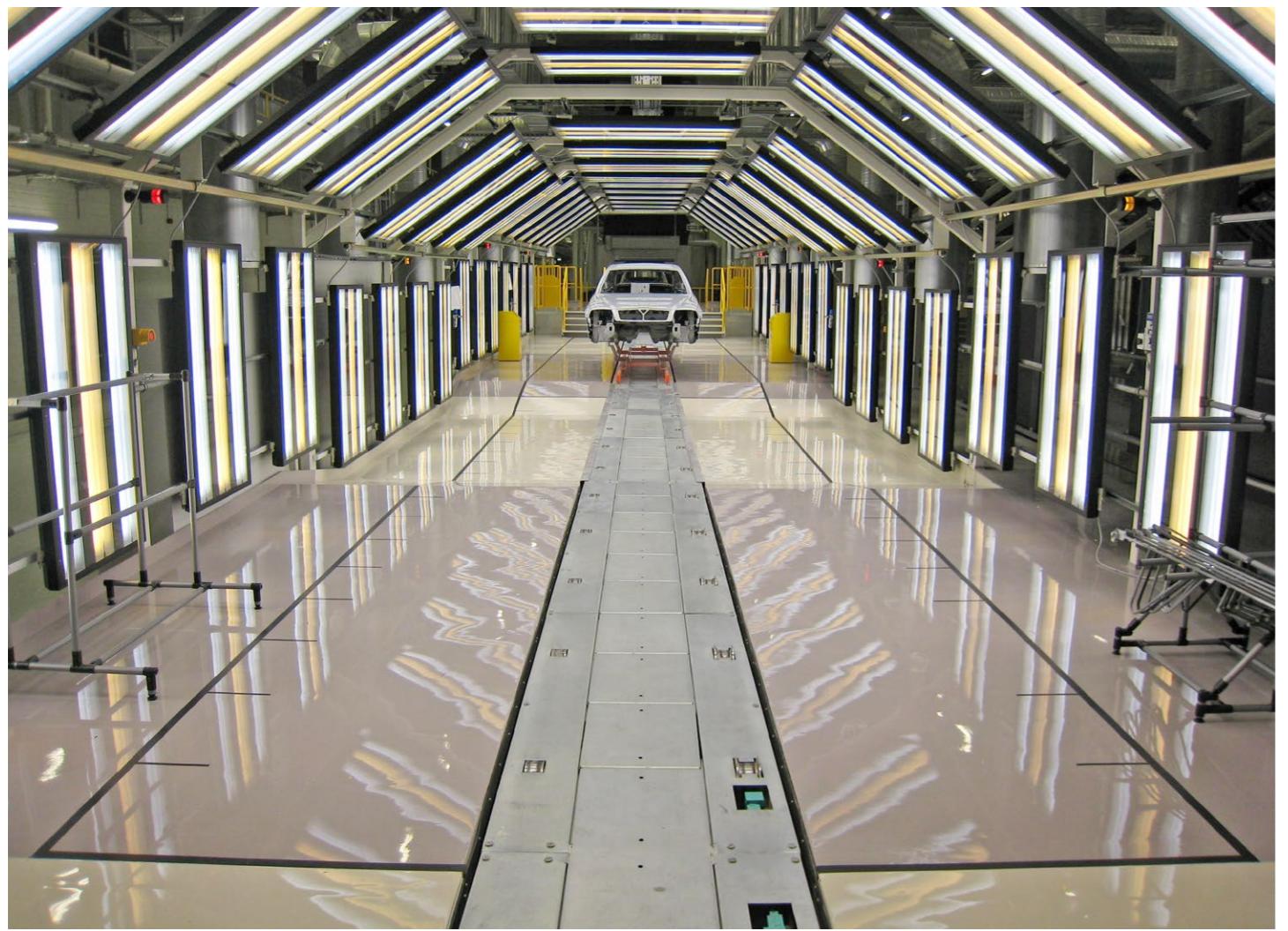


Always the right coating system

ROMEX® grew up in the contract business. For over 25 years we have been involved in the realization of construction projects worldwide. Since every project is unique, we accompany our customers and prospects from the beginning with individual care and support. For the best possible realization of your project we offer tailor-made system solutions and support the project to the final acceptance, so that in the end all parties involved are satisfied: architect, planner, builder and the contractor. Because our experience is your success.

Our credo: Success requires reliable partnerships. We know that, too. That's why we take care that our partners are compatible and act internationally in the field of floor coatings and paving mortar with personal contact and competent advice. As part of our partner concept, we work closely with trained people and certified laying companies. Specifically: We have the right contractor for your project who will submit you an offer with our high quality systems. As responsible material manufacturer, we not only advise, but





Floor coatings for the automobile industry

Systems tailored to the needs of automobile manufacturers and suppliers



The requirements for a floor coating for the automobile industry are many sided. Depending on the work or production area, there are a variety of requirements for the floor. The coating in the Press Shop is different to the one in the Paint Shop, the wind tunnel needs a different coating compared to the warehouse. Whereas on a concrete floor, a standard floor coating can be applied, with a steel floor, elastic coating must be used. ROMEX® offers tailor-made solutions for all areas of your business.



Properties

- Mechanically highly load bearing
- Very high abrasion strength
- Chemically resistant
- For highly visually attractive requirements
- WHG system is possible (§ 19 WHG)
- Can be made smooth or nonslip
- Elastified, can be made to bridge cracks
- Easy to clean
- Smooth, glossy or matt surfaces
- Can be made electrostatically conductive (ESD)
- Can be made as a structured coating (thix/studded/orange peel structure)



Floor coatings for the electronics industry, IT

Conductive systems for the electronics industry



During the manufacture of electronic components, voltage damage often occurs. This is caused by unregulated electrostatic discharge. Thanks to the ESD coating especially developed for this purpose, regulated voltage can be guaranteed. This electrostatically conductive floor coating ensures that the required leak resistor and all other DIN requirements are met at all layer thicknesses. We are happy to offer individual consultation.



Properties

- Electrically conductive (EA & ESD)
- Various layer thicknesses are possible
- Just one abrasion layer
- Homogenous and shiny surface
- Mechanically load bearing
- Highly abrasion resistant
- High compressive strength
- Chemically load bearing
- Viscous elastic
- Joint free
- Solvent free



Floor coatings in pharmaceuticals, clinics, laboratories and cleanrooms

Chemically highly resistant systems for the pharmaceutical industry

The clinics, pharmaceutical industry and medical technology (clean room, chemistry, pharma, clinic, laboratory) are among the most sensitive areas in the creation of high-quality services and products. The right floor in clean rooms is crucial to the whole quality standard and therefore must meet the highest standards of protection of persons and products. Clean room coatings are joint free, abrasion resistant and dust free. This makes the floor coating hygienically and microbacterially sound, because there are no areas liable to contamination such as when there are joints. The ROMEX® clean room coatings for floors, but also walls and ceilings, keep the dust particle contamination below the required maximum values - whether dust-free, hygienic, chemical (highly) resistant, electrically conductive, physiologically sound, easy to clean and tested by the health committee for the evaluation of construction products (in short: AgBB).

Properties

- Dustfree
- Hygienic
- Easy to clean (can be decontaminated)
- Chemically resistant
- Mechanically highly load bearing
- Boat formation and jointfree
- Watertight
- Bridges cracks
- Thermically highly load bearing
- Can be made electrostatically conductive (ESD)
- High abrasion strength
- For clean rooms acc. to 14644



Floor coatings for the food and drinks industry

Chemical-resistant and slip-proof systems for the food industry



The correct floor in the food and drinks industry is vital for the entire quality standard of a company and their products. Work and hygiene safety need to take priority. Untreated concrete floors, screeds or joints between tiles, do not offer the best protection, because bacteria, fungus and other germs can take hold here and thus become dangerous to the hygiene in the company. ROMEX® offers individual, coating systems for all areas, tailored perfectly to the needs of the user.



Properties

- Is in accord with all European Community hygiene regulations
- Chemically resistant against lactic acid, salt, preservatives and cleaning agents
- Resistant to high mechanical loads
- Resistant to high thermal loads
- Has a boat shape form and is joint free
- Water tight
- Nonslip according to German trade cooperative association guidelines and DIN 51 130
- After hardening, ROMEX® products are free of volatile organic compounds (VOC) and thus do not affect



Coatings for carparks and underground carparks

Weather and abrasion resistant systems for all parking areas



Carparks and underground carparks are subjected to heaviest mechanical, chemical and thermal loads such as through abrasion of the road surface, soiling from oil and petrol as well as damp from the weather. Particularly in winter when ice, snow and aggressive salt is brought into the carpark. In order to guarantee the best possible protection for trafficked concrete surfaces, ROMEX® supplies the best OS8 tested systems for all areas such as entrances and ramps, road ways and parking spaces, open air parking decks and surfaces in contact with the ground. We are happy to offer individual consultation.



Properties

- Can be made nonslip, depending on sanding - high to very high
- Very high abrasion strength
- Viscous hard floor covering, resistant to vehicles and forklifts
- Fillable with firedried quartz sand
- Solvent free
- Good chemical resistance



Coatings for stadium stands and stadium boxes and multi purpose arenas

Cost effective and slip safe systems for all areas in the stadium

Requirements for spectator stands in stadiums are getting ever more strict. The owners of the stadiums, as well as the spectators themselves, require ever more safety, comfort, longevity and visual attractiveness for the areas in which the spectators will be. As well as the spectator stands, there are numerous other public and non-public areas for which the correct floor coating is very important. This includes changing rooms, treatment rooms, sanitary areas as well as all restaurant areas.



Properties

- Protection
- Sealing
- Security
- Longevity
- Comfort
- For highly visually attractive requirements



Coatings in heavy industry and mechanical engineering

Tailor-made coating systems in heavy industry

In production areas, especially in heavy industry and in mechanical engineering, industrial floors are subject to extremely heavy loads. Coatings must be mechanically highly load bearing, shock and abrasion resistant. There is also the need for thermal and chemical resistance, depending on type of products. To meet these high demands, ROMEX® offers a coating system that is tailored to the individual requirements of the respective production company. There are also mortar systems for underpouring and anchoring of machinery and equipment as well as for anchoring and repair of construction elements and bridge structures. We guarantee the best solution for your production.



Properties

- Mechanically highly load bearing
- Very high abrasion strength
- Chemical resistant
- Can be made smooth or nonslip
- Elastified, can be made to bridge cracks
- Easy to clean
- Smooth, glossy or matt surfaces
- Can be made as a structured coating (thix/studded/orange peel structure)



Floor coatings for warehouses with Logistics and Distribution

Abrasion resistant and mechanically highly load bearing systems for the logistics industry

Floor coatings in warehouses and logistics halls are constantly under highest mechanical and often thermal loads, for example, by forklift traffic, deposits of oil and gasoline as well as weather-related moisture when forklifts move between hall and outdoor areas. Especially in the cold season, ice, snow and especially aggressive salt are brought into the warehouses. This happens when forklifts move between warehouse and outdoor storage areas or loading ramps. Our systems for storage areas are highly loadbearing and can withstand any loads/stress that occurs. With lining and marking colors you can mark out running, driving and storage areas thus ensuring the necessary safety and order in the warehouse.



Properties

- Mechanically highly load bearing
- Very high abrasion strength
- Viscous hard floor covering, resistant to vehicles and forklifts
- Chemically resistant
- Can be made smooth or nonslip
- Elastified, can be made to bridge cracks
- Easy to clean
- Smooth, glossy or matt surfaces
- Can be made as a structured coating (thix/studded/orange peel structure)



Floor coatings for private and commercial areas

High-quality floor and wall sealant that can also be applied by airless spraying



Airless spray method

Properties

- For use indoors and outdoors
- Suitable for surfaces that touch the ground
- Fulfils fire classification B1 (Bfl-s1 flame resistant)
- Primer and sealant in one
- Water soluble
- Solvent free
- Environmentally friendly
- Open to steam diffusion/water vapor permeable
- Chemically resistant
- Lightly structured surface
- Can be applied using airless spray method

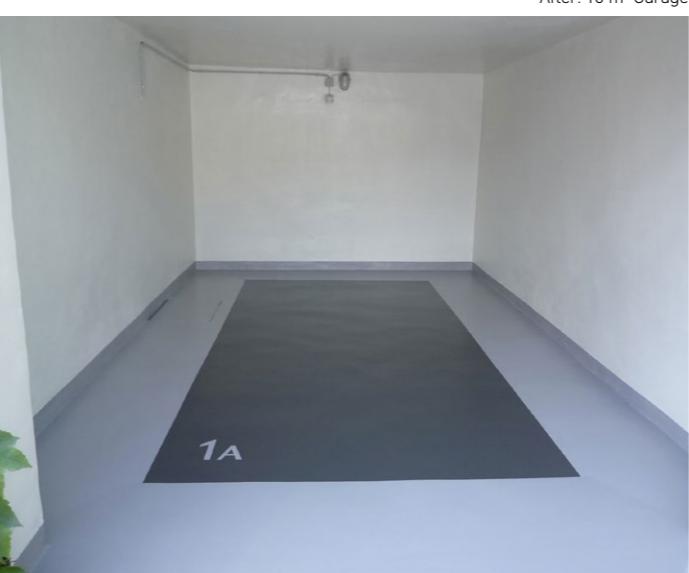
In order to make the many years of positive experience with top industrial products also available for private use, ROMEX® has adapted two of its coatings. Thanks to the adaptation to the needs of home users and craftsmen, a very easy to use, universally applicable sealant and a high quality coating were formulated. These products are available through specialist retailers.

- High quality floor and wall sealant
- Extremely loadbearing
- Easy application
- Modern solutions for garages, cellars, industrial and work halls as well as many more
- For indoor and outdoor use

Visually appealing, easy to use coating system for garages, cellars and hobby rooms. The 2 component multi sealant is an extremely loadbearing sealant for garages, cellars, warehouses and industrial halls indoors and outdoors. Floor, wall and ceiling surfaces can be sealed user friendly.



Before:



After: 15 m² Garage



Before:



After: 500 m² Showroom at HotSpring in Gerasdorf, Austria

ROMPOX® 1009 is perfect for the sealing of cementbound surfaces – including those with rising damp. Because of its good water vapor permeability, the sealant is also suitable for magnesite and anhydrite screeds with light mechanical loads, as well as for use on hardcast asphalt indoors.

ROMPOX® 1009 can also be applied using the airless spray method for quick work on large surface areas, when 10 % water is added. Equipment must be cleaned each time it is not in use. The cleaning is done by carrying out the spray process with water until no material is left in the system. The final cleaning is done using water plus 10 % solvent (preferably ethanol).

ROMEX® offers the product ROMPOX® 1009 in two standard colors. For large size industrial areas, the product ROMPOX® 1009 is available as a sealant and ROMPOX® 1010 as a thick coating, available in large containers and many colors.

Tailor-made systems



ROMEX®-system solutions

As specialists with decades of experience in the construction project business, ROMEX® brings you tested and certified systems of the highest quality. For the best possible realization of your construction project we offer tailor-made system solutions and accompany your project until the final acceptance. The quality of our systems is ensured by specially developed quality standards, which go far beyond the generally applicable standards.

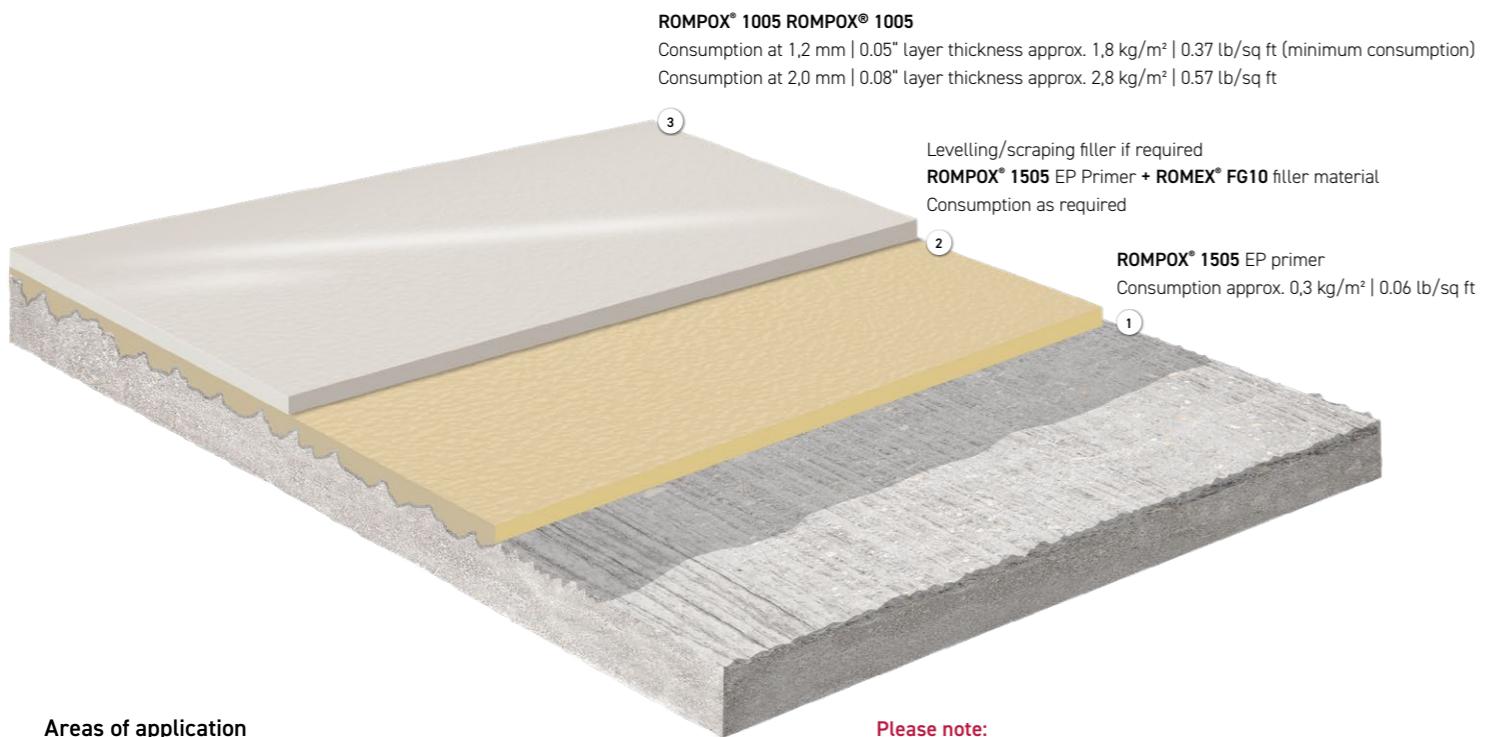
Our durable 2-component epoxy resin primers provide optimal protection for almost any surface. Whether on steel, concrete, anhydrite and magnesite screeds or asphalt / bitumen, the primers by ROMEX® are perfectly matched to the respective substrate. Our high-quality floor coatings are characterized by their high resilience, their slip resistance and chemical resistance. In addition to tested systems such as our OS 8 coating for multistorey car parks and underground car parks, ROMEX® is one of the leading suppliers of ESD coatings.

ROMEX® coating systems are rounded off with our floor and wall sealants. Our EP and PU sealers provide optimum protection for almost any surface. We leave nothing to be desired and offer our customers glossy sealants with mirror effect, as well as matt surfaces. Rough or smooth, colored or transparent, plain or decorative. ROMEX® offers the right solution for every requirement.



ROMEX® Standard system

High quality, solvent free and pigmented self-levelling coating, epoxy resin based



Areas of application

ROMPOX® 1005 is a ready to use, pigmented, self-levelling, viscous hard floor coating for cement bound and metallic surfaces in areas subject to chemical and mechanical loads. It is especially suitable for the production of high quality industrial goods such as in the electronics industry, pharma industry, automotive industry, mechanical engineering and in nuclear power stations.

Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In general, the surface should be prepared by shotpeening.
- ▷ If necessary: pre-treat surface by grinding or milling
- ▷ The adhesion strength of the surface needs to be $\geq 1,5 \text{ N/mm}^2 | 218 \text{ psi}$
- ▷ Before coating the concrete surface must be primed using a primer such as ROMPOX® 1505 (depending on type of surface) and evened out using a scraping filler such as ROMPOX® 1505, in order to achieve an extremely smooth surface.
- ▷ For cement surfaces with residual moisture $\leq 4 \text{ CM-}\%$: ROMPOX® 1505
- ▷ For higher residual moisture $\leq 6 \text{ CM-}\%$: ROMPOX® 1506
- ▷ For higher residual moisture $> 6 \text{ CM-}\%$: ROMPOX® 1504
- ▷ Highly porous surfaces need to be primed twice!
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ Metal surfaces should be treated according to the Swedish norm SA 2 1/2 acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101.

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

Please note:

It is recommended to have a minimum consumption of ROMPOX® 1005 (resin and hardener mixture) of $1,8 \text{ kg/m}^2 | 0,37 \text{ lb/sq ft}$ = approx. $1,2 \text{ mm | 0,05"}$ layer thickness!

In case of surface and material temperatures below $+15^\circ\text{C}$, or when going below the thaw/melting point distance, self-levelling and surface damage as well as adhesion problems for the coating system may occur.

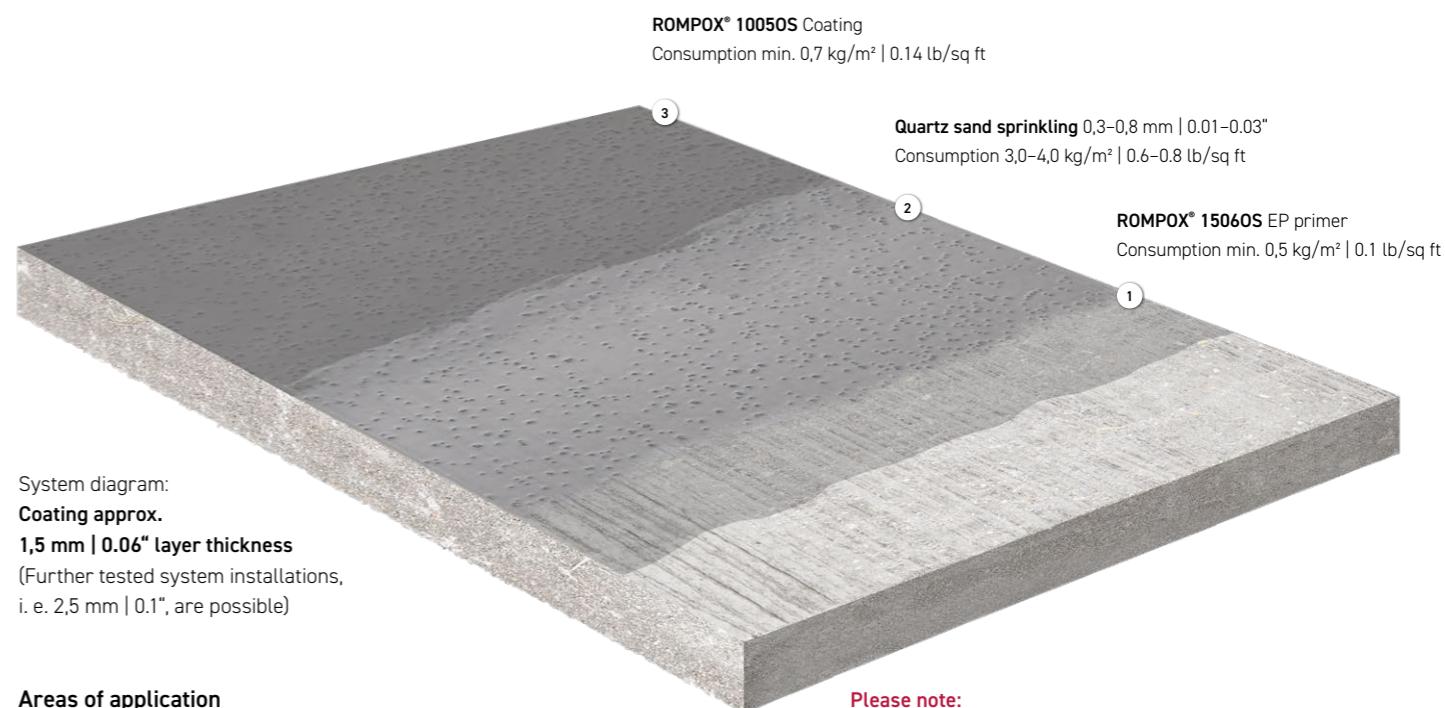
Smaller surfaces with metallic foundations can be primed with ROMPOX® 1101 and coated with ROMPOX® 1005, if the surfaces are free of movement and are not subjected to large or sudden temperature changes.

Properties

- High gloss
- Can be decontaminated
- Easy to clean
- Watertight
- Viscous hard floor covering,
- Resistant to forklifts
- Very high abrasion strength
- Solvent free
- Good chemical resistance
- Very good levelling and aeration properties

ROMEX® Carpark system OS 8

High quality, solvent free, pigmented epoxy resin coating for sprinkled, non slip surfaces.
As a system, tested according to surface protection classification 8 (OS 8)



Areas of application

Tested system for carparks, underground carparks, entry and exit ramps, parking and driving areas indoors. Test certificate for OS 8 system acc. to DIN EN 1504-2 and DIN V 18206 for the protection and maintenance of concrete support structures. Not suitable for surfaces exposed to the weather without a roof.

Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In general, the surface should be prepared by shotpeening.
- ▷ In some cases it may be necessary to carry out grinding or milling.
- ▷ The minimum adhesion strength of the surface must be $\geq 1,5 \text{ N/mm}^2 | 218 \text{ psi}$.
- ▷ Before coating the concrete surface must be primed using a primer such as ROMPOX® 1505 (depending on type of surface) and evened out using a scraping filler such as ROMPOX® 1505, in order to achieve an extremely smooth surface.
- ▷ For cement surfaces with residual moisture $\leq 4 \text{ CM-}\%$: ROMPOX® 1506OS
- ▷ For higher residual moisture $\leq 6 \text{ CM-}\%$: ROMPOX® 1506
- ▷ For higher residual moisture $> 6 \text{ CM-}\%$: ROMPOX® 1504
- ▷ Highly porous surfaces need to be primed twice!
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ Metal surfaces should be treated according to the Swedish norm

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

Please note:

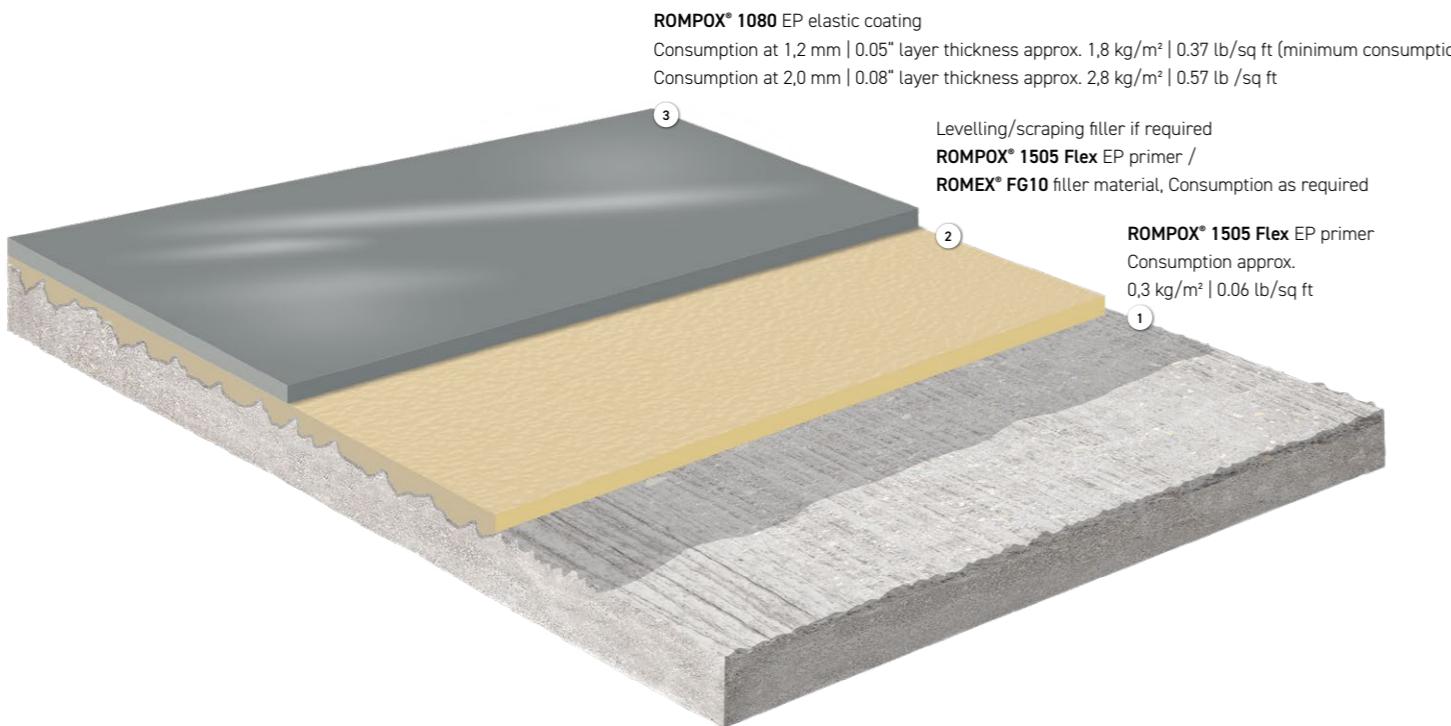
Attention! When installing according to Rili-SIB (2001), the corresponding AbP should be heeded, according to DIN V 18206 the information for execution.

Properties

- Can be made nonslip, depending on sanding - high to very high
- Very high abrasion strength
- Viscous hard floor covering,
- Resistant to vehicles and forklifts
- Fillable with firedried quartz sand
- Solvent free
- Good chemical resistance

ROMPOX® 1080 Elastic system

Elastic coating system for crack bridging, can be used especially for steel surfaces and poured asphalt



Areas of application

ROMPOX® 1080 is an elasticized floor coating with special resistance to impact. The system is pigmented, self-leveling, chemical resistant and easy to clean. Surfaces can be created using chip sprinkling. Suitable for new construction and renovation of cementbound surfaces, hardcast asphalt floor coverings indoors as well steel plates indoors. Areas of application are mechanically and chemically contaminated areas in the printing industry, in chemical companies, sewage plants, petrol stations and in the petroleum industry. In addition, it can also be used in areas of the aviation and automotive industry, paint shops, clean rooms and stadium stands. ROMPOX® 1080 can be used as elastic sealing material for sprinkled, non-slip coatings. Crack bridging ability acc. DIN EN 1062-7: 2004 up to 0.3 mm | 0.012".

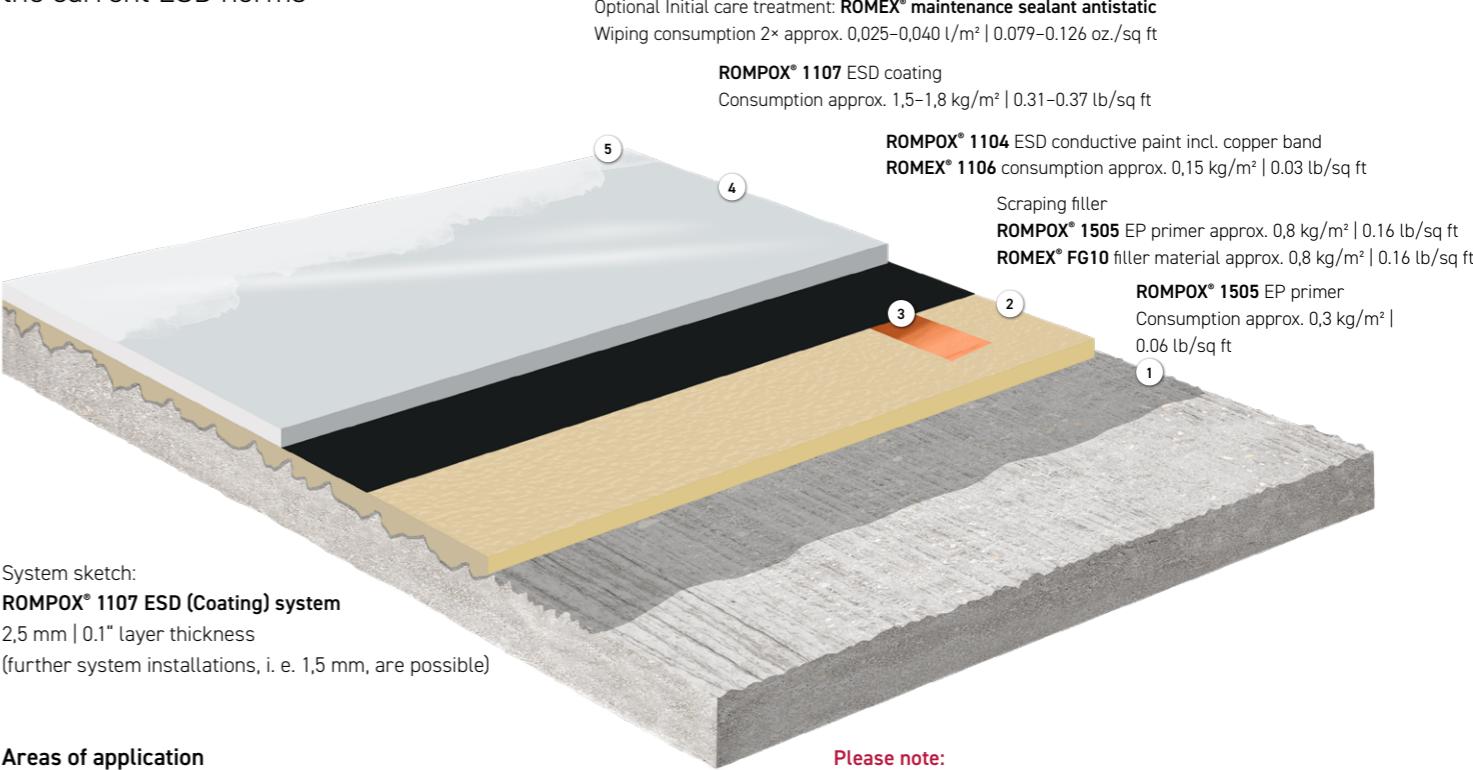
Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In all cases, the surface should be prepared by shotpeening or similar and then primed.
- ▷ In some cases it may be necessary to carry out grinding or milling.
- ▷ The adhesion strength of the surface needs to be $\geq 1.5 \text{ N/mm}^2$ | 218 psi
- ▷ Residual moisture of the concrete must be $\leq 4 \text{ CM\%}$ (CM machine).
- ▷ Before coating the concrete surface must be evened out using a primer or scraping filler such as ROMPOX® 1505, in order to achieve an extremely smooth surface.
- ▷ For cement surfaces with residual moisture $\leq 6 \text{ CM\%}$: ROMPOX® 1506
- ▷ For higher residual moisture $> 6 \text{ CM\%}$: ROMPOX® 1504
- ▷ Highly porous surfaces need to be primed twice!
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ Metal surfaces should be treated according to the Swedish norm SA 2 1/2 acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101.

Hard poured asphalt indoors is primed using ROMPOX® 1505 Flex, or evened out using ROMPOX® 1080, in this case, in order to ensure optimum adhesion,

ROMPOX® 1107 ESD-System

Electrostatically conductive coating system for areas with sensitive components according to the current ESD norms



Areas of application

ROMPOX® 1107 ESD coating is an electrically conductive, mechanically and chemically loadbearing self-leveling coating. It is used in manufacturing areas in the electronics industry, circuit board manufacture, laboratories, operating theatres, computer rooms and in the automotive industry as well as for use in other areas with EPA requirements. It fulfills the requirements according to DIN EN 61340-5-1. ROMPOX® 1107 ESD fulfills the location junction resistance according to VDE 0100-600 (2008) electrode 1 (tripod electrode) of $>50.000 \text{ Ohm}$, according to the tolerance limit requirements of VDE 0100-410. ROMPOX® 1107 ESD coating is an easy to clean coating combined with high abrasion strength. It is chemically resistant to alkalis, saline solutions and diluted acids as well as mineral oils.

Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In all cases, the surface should be prepared by shotpeening or similar and then primed.
- ▷ In some cases it may be necessary to carry out grinding or milling.
- ▷ The adhesion strength of the surface needs to be $\geq 1.5 \text{ N/mm}^2$ | 218 psi
- ▷ Residual moisture of the concrete must be $\leq 4 \text{ CM\%}$ (CM machine).
- ▷ Before coating the concrete surface must be evened out using a primer or scraping filler such as ROMPOX® 1505, in order to achieve an extremely smooth surface.
- ▷ For cement surfaces with residual moisture $\leq 6 \text{ CM\%}$: ROMPOX® 1506
- ▷ For higher residual moisture $> 6 \text{ CM\%}$: ROMPOX® 1504
- ▷ Highly porous surfaces need to be primed twice!
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ Metal surfaces should be treated according to the Swedish norm SA 2 1/2 acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101.

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

Please note:

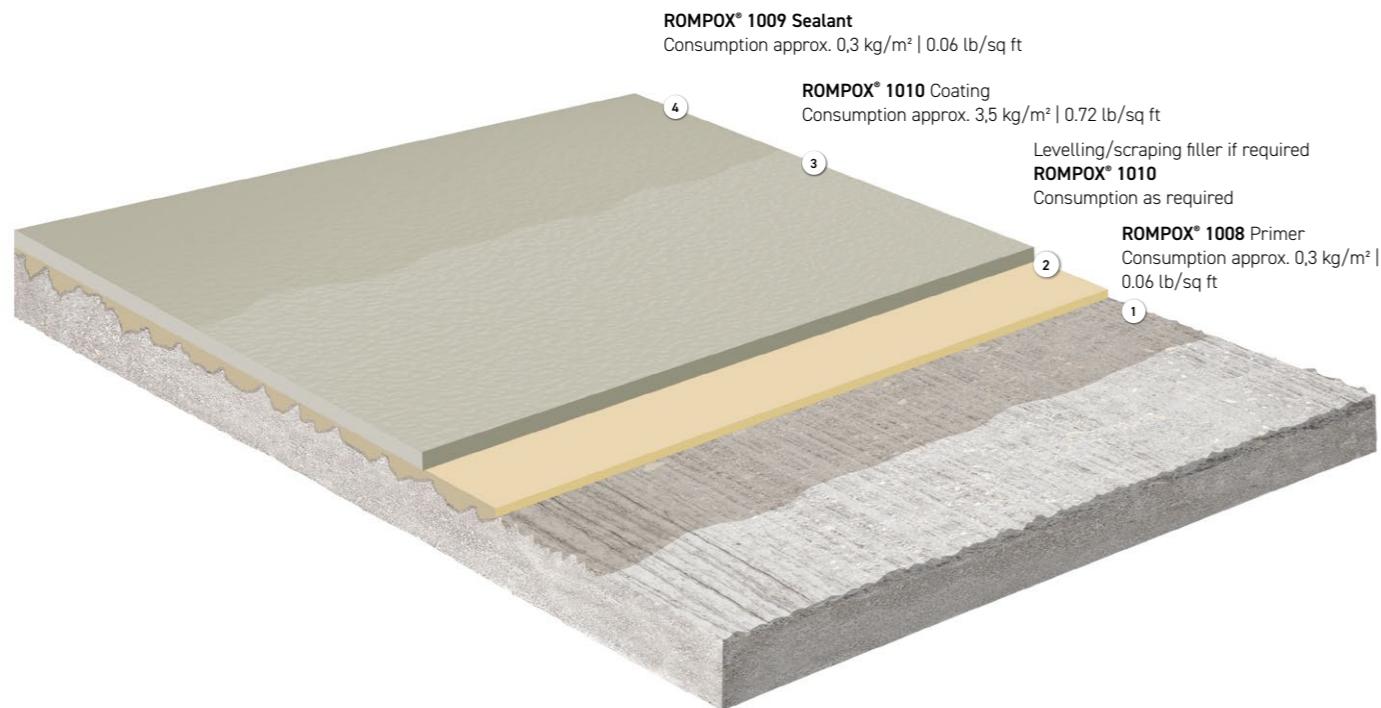
or better aeration use a metal pinfeed platen. The maximum consumption of ROMPOX® 1107 ESD coating is 1.8 kg/m^2 and must not be exceeded. Conductive value measuring can be carried out from day three, protocol measuring from day seven. If the surface is at risk of rising damp, then to prevent osmosis, apply ROMPOX® 1506 or ROMPOX® 1504 with at least $2 \times 0,300 \text{ kg/m}^2$ | 0.06 lb/sq ft. Due to the conductive nature, technical deviations may cause slight colour deviations. Higher layer thickness also affect the electrical properties and lead to increased resistances. Depending on conditions, whilst hardening a light surface film may form which can be wiped away with water. From relative air humidity of below 25%, resistance may increase, this decreases again with normal room climates.

Properties

- Electrically conductive self-leveling coating for increased ESD protection requirements
- Fulfills the requirements acc. to DIN EN 61340-5-1 for ESD areas and EPA zones ("human-shoe-floor", Walking Test with maximum charging of $< 100 \text{ Volt}$)
- Fulfills the location junction resistance according to VDE 0100-600 (2008) electrode 1 (tripod electrode) of $>50.000 \text{ Ohm}$, according to the tolerance limit requirements of VDE 0100-410.
- Balanced mechanically and chemically loadbearing
- Homogeneous, coloured surface
- Solvent free

ROMPOX® Open to steam diffusion system

Open to steam diffusion coating system for all surfaces with rising damp



Areas of application

ROMPOX® 1010 is used as a water vapor-diffusible self-levelling coating for cementbound surfaces indoors and outdoors. Main application area is the coating of floor surfaces with rising damp i.e. in warehouses, workshops and garages and as a special application for coating magnesite and anhydrite surfaces.

Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In general, the surface should be prepared by shotpeening and a primer should be applied.
- ▷ If necessary: pre-treat surface by grinding or milling.
- ▷ Damp surfaces can be treated, but must not have any standing water on them.
- ▷ Please note: magnesite and anhydrite surfaces can be sealed when residual moisture content is 0.5 CM.-% (unheated) and 0.3 CM.-% (heated).
- ▷ Highly porous as well as magnesite and anhydrite surfaces need to be primed with ROMPOX® 1009 2 x 0,3 kg/m² / 0.06 lb/sq ft.
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ For surface roughness greater than 0,5 mm / 0.02", scraping filler made with ROMPOX® 1009 should be used.

Due to the numerous variations in surfaces – especially with old coatings – we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

Please note:

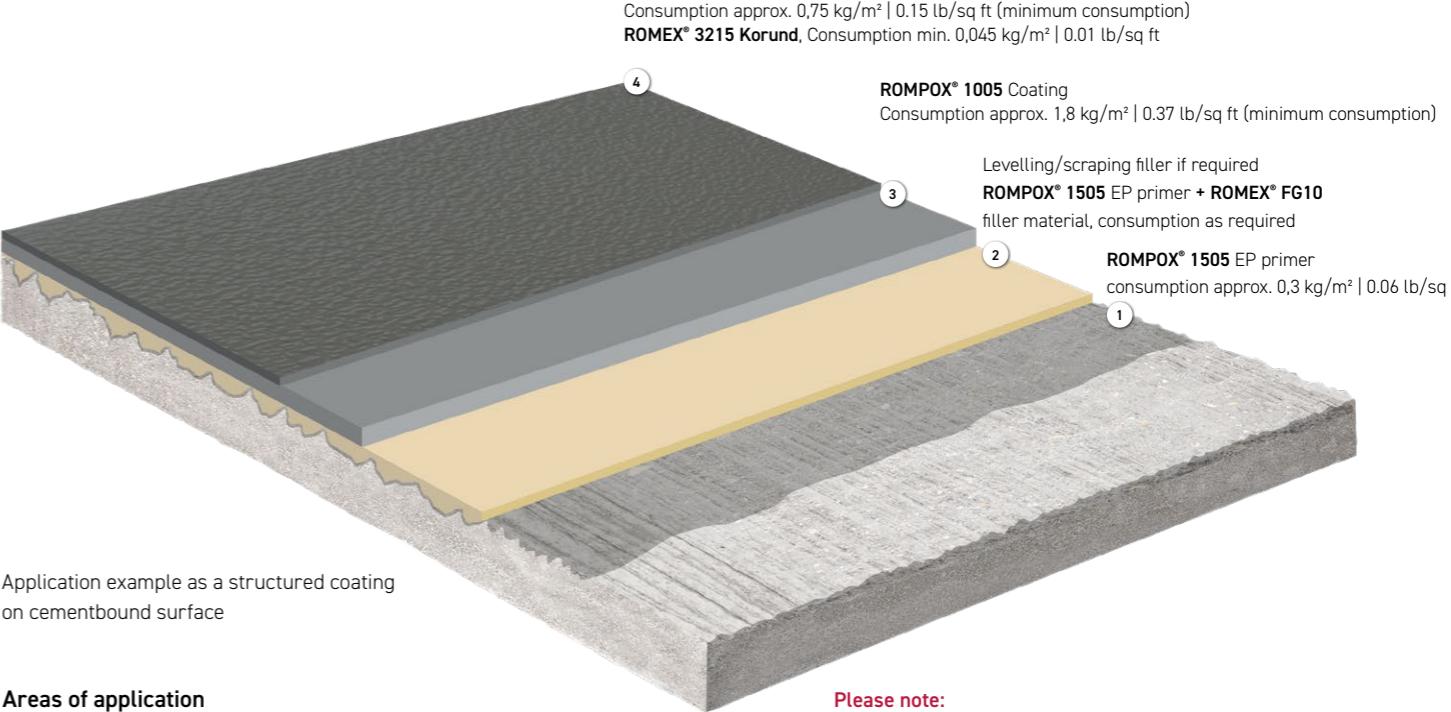
The minimum consumption of ROMPOX® 1010 is 3,5 kg/m² / 0,72 lb/sq ft! Insufficient aeration can increase the waiting time for subsequent works and hardening of coating as well as causing differences in degree of shine or formation of white marks. Coated rooms need to be aired thoroughly in order to enable optimum diffusion of the water particles from the fresh coating!

Properties

- Completely frost and de-icing salt resistant (after hardening)
- Open to steam diffusion
- Mechanically highly load bearing
- Chemical resistance
- Thick layer as self-levelling coating
- For surfaces touching the ground
- Can be made nonslip
- Available in many standard and light colour tones, special colours on request

ROMPOX® Structured coating

Structured coating system with predefined nonslip level that is easy to clean for industrial production facilities and warehouses.



Application example as a structured coating on cementbound surface

Areas of application

ROMPOX® 1070 Thix is a lightly structured, solvent free, viscous hard topcoat with high abrasion strength. By mixing in aluminiumoxide (Korund), firedried quartz sand, etc. it is possible to achieve a predefined nonslip level along with good cleaning capability. ROMPOX® 1070 Thix is used as a structured, rolled coating in production and warehouse areas in the automotive industry, in the electrical and pharmaceutical industry, engineering and factory workshops.

Surface requirements before application

- ▷ The surface must be loadbearing, even, dry and free of oil, grease, separators and dust.
- ▷ Loose particles and other dirt must be removed.
- ▷ In general, the surface should be prepared by shotpeening.
- ▷ In some cases it may be necessary to carry out diamond grinding or milling.
- ▷ The minimum adhesion strength of the surface must be $\geq 1.5 \text{ N/mm}^2$ / 218 psi.
- ▷ Residual moisture of the concrete must be $\leq 4 \text{ CM}\text{-%}$ (CM machine).
- ▷ For cement surfaces with increased residual moisture $\leq 6 \text{ CM}\text{-%}$: ROMPOX® 1506
- ▷ For higher residual moisture $> 6 \text{ CM}\text{-%}$: ROMPOX® 1504 (as moisture barrier).
- ▷ Highly porous surfaces need to be primed twice!
- ▷ In all cases, it is necessary, that after priming, all pores on the surface are sealed.
- ▷ Metal surfaces should be treated according to the Swedish norm SA 2 1/2 acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101.

Please note:

When working indoors, sprinkling can be left out, if it is ensured, that subsequent work will take place within 48 hours at the latest. Please take note of ROMEX® technical specifications for coatings and sealants.

Properties

- Easy to clean
- Elastified (ROMPOX® 1505 Flex / ROMPOX® 1080 Thix)
- Viscous hard floor coating, resistant to vehicles and forklifts
- Very high abrasion strength
- Can be made nonslip
- Good chemical resistance
- Solvent free



Technology





Surface before coating

Technical information

Surface preparation

1. Preliminary notes

The application of reactive resins when laying, improving or repairing industrial floors, needs precise knowledge of the requirements of the surface, a thorough examination of the surface and careful preparatory work for each individual case. ROMEX® as a material manufacturer works only with certified partners who have been trained in the processing of reactive resin coatings with ROMEX® materials. The ROMEX® partner takes on the task and together we give you the warranty for the finished coating. ROMEX® as manufacturer does make direct offers and does not accept work contracts.

2. Areas of validity

The following instructions and requirements are valid - DIN 18560 screeds in construction, ATV DIN 18353 screed work and ATV DIN 18365 floor coating work. The requirements described here should be applied to industrial floor coatings. The terms and regulations found in DIN 55945- painting materials and similar coating materials - cannot be used for industrial floors because they primarily apply to painting applications and do not take into consideration the requirements of industrial floors.

3. Testing and preparation of the surface

The durability and resistance of industrial floors made from reactive resins, depends on the strength and quality of the sub surface. This must therefore always be tested for its suitability for the subsequent layer construction and, if necessary, adequately prepared and pre-treated.

The requirements for testing and surface preparation involve the following:

- Testing moisture / dryness of concrete
- Risk of rising damp (osmosis)
- Evenness acc. to DIN 18202
- Incorrect height
- Compressive strength of floor slab
- Surface strength (minimum adhesion strength)
- Soft and breakable parts
- Chemical soiling
- Porosity
- Roughness
- Cracks
- Joints
- Room climate (temperature and air humidity)
- Surface temperature and risk of melting point
- Hollow areas
- Compatibility between reactive resin and surface

Depending on results, additional measures may need to be taken.

4. Requirements of the surface before coating

The surface must be loadbearing, level, dry, free from oil, grease, separating agents and dust. Loose parts and other soiling must be removed. As a rule, each surface must be prepared by means of shot peening and then primed. Milling or grinding may be necessary in individual cases. The adhesive strength of the surface must be 1.5 N/mm^2 to ensure good adhesion with the standard primer ROMPOX® 1505.

If the minimum tensile strength is not reached, the damaged concrete surface must be removed by grinding, milling or shot peening, until the healthy core concrete is reached. The residual moisture content of the concrete must be $\leq 4 \text{ CM\%}$, for anhydrite-bound surfaces $\leq 0.5 \text{ CM\%}$, heated $\leq 0.3 \text{ CM\%}$ (CM device). For cement surfaces with increased moisture content $\leq 6 \text{ CM\%}$, use ROMPOX® 1506, for higher residual moisture content $> 6 \text{ CM\%}$, use ROMPOX® 1504. Highly porous surfaces must be primed twice! In all cases it is necessary that all surface pores are sealed after priming.

Metal surfaces should be treated according to SA 2 1/2 acc. to ISO Norm 8501-1 and then primed with ROMPOX® 1101. Due to the numerous variations in surfaces - especially with old coatings or dense surface made of hard materials or any treatment agents that may have been used - we recommend that a sample coating is laid, in order to eliminate any reactions that cannot be calculated in advance.

For all concrete and epoxy works, at least 15°C and maximum 70% air humidity are required according to ROMEX® standards.

The floor can then be used as follows:

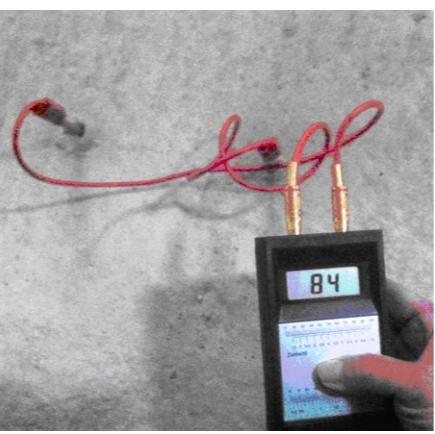
- Pedestrian traffic after 2 days
- Medium heavy traffic after 5 days and
- Fully loadbearing after 7 days

The services are provided according to the standards of the ROMEX® checklist for concrete and epoxy resin floors. Any expansion joints are laid according to static calculations. Cracks that appear due to the physical properties of concrete and steel, or due to breakages or hollow areas, are not an indication of faulty work.

Table 3 – Tolerance values for evenness deviations acc. to DIN 18202:2005-10

Reference	Actual dimension as tolerance limit in mm at measuring point distances in m up to				
	0,1	1 ^{a)}	4 ^{a)}	10 ^{a)}	15 ^{a,b)}
1	Non surface completed upper sides of ceilings, under concrete and under floors	10	15	20	25
2	Non surface completed upper sides of ceilings, under concrete and under floors with special requirements i.e. for swimming screeds, industrial floors, tiles and slab surfaces, bonded screeds	5	8	12	15
3	Surface completed floors, i.e. screeds as used screeds, screeds for floor coverings, tiles, coverings that are filled and glued.	2	4	10	12
4	As 3, but with higher requirements	1	3	9	12
5	Non surface completed walls and under sides of raw ceilings	5	10	15	25
6	Surface completed walls and under sides of ceilings, i.e. plastered walls, wall coverings, underhanging ceilings	3	5	10	20
7	As 6, but with higher requirements	2	3	8	15

a.) In between values can be seen in pictures 4 and 5 and should be rounded up to whole mm.
b.) Tolerance limits for evenness deviations in column 6 are valid for measuring point distances more than 15 mm | 1/2".



Moisture measuring (electronic system power)



Measuring surface temperature



Testing adhesive tensile strength

Technical information

Slip resistance system

Concept, Advice, Service – from one source

Each year over a million accidents caused by falls on slippy floors occur in Germany alone, that is why ROMEX® has devoted themselves to this topic. We can offer you a full-service concept and high-quality systems that meet all requirements for a non-slip industrial coating.

Assessment of testing methods

Slanted level according to DIN 51 130

In Germany, the test used to determine slip resistance is always the construction sample test according to BGR 181, corresponding to DIN 51 130 "Test of floor coverings – determining the nonslip property – workrooms and work areas with increased risk of slipping – walking method – slanted level".

The test method according to DIN 51 130 serves as a suitability test to determine and to classify the nonslip quality of industrial floor coatings.

The floor coating to be tested is attached to a set up that can be tipped and then painted with motor oil. A test person then "walks" downwards on the slanted level with normed work shoes, in small steps, forwards and backwards. The test angle is continuously changed and measured until the test person feels unsafe or slips.

The angle degree then determines the so called R value.

R 9: 6°-10°	R 10: > 10°-19°	R 11: > 19°-27°
R 12: > 27°-35°	R 13: > 35°	

According to the requirements of the trade association guidelines BGR 181, the minimum requirement is:

Evaluation group	Areas of application (examples)
R 9	General indoor areas such as offices and break rooms, company canteens, sales rooms, packaging areas, checkout areas, customer rooms, OP rooms, hospital rooms, corridors, chemists, laboratories, hairdressers, medical practices, switch rooms, classrooms, break halls, corridors and entrances in schools and nurseries.
R 10	Public toilets, work rooms in schools, garages and underground carparks that are not affected by the weather.
R 11	Entrances to shops, outside stairs, kitchens in residential homes, nurseries and sanatoriums.
R12	Hospital kitchens and other kitchens with a capacity of more than 100 settings daily.
R13	Abattoir floor coatings

Adjacent work areas must also be covered according to "adjacent" test groups, i.e. crossing from R 12 to R 11 is allowable, from R 12 to R 10 not.

Work areas that are subjected to loads consisting of greasy, paste-like or viscous materials need to have a displacement room. Barefoot areas subject to water are classified according to DIN 51 097 in ABCde-gree-classifications.



Sliding friction test according to DIN 51 131

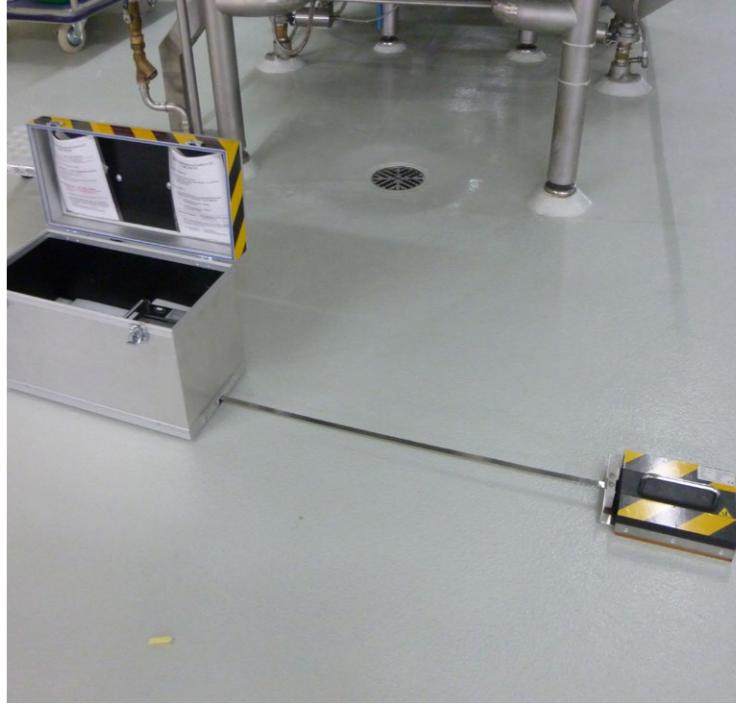
Even though the trade association only allows certain results using sliding friction testing machines, all surfaces on building projects must be able to be tested for slip safety. We recommend, as do leading surveyors, accompanying testing during and after application.

With this testing method, movable test machines with varying sliders, measure the slip resistance. On site testing is possible. The results are authorised for floor coverings up to requirement R 9 and bare foot areas up to classification B with displacement room below 400 ml/m² | 0,105/10,764 sq ft.

According to BGR / GUV-R 181 for R9 and classification B, the following categories are valid for the sliding friction coefficient:

- up to 0.30: insufficient slip resistance
- from 0.30 - 0.44: slip resistant
- from 0.45: fit for unlimited industrial use

Due to missing comparative sliding friction coefficients with R classification, we have determined our own measuring values. With these measuring values, we are able to determine values for the classifications R10 to R13, which offer a practical test of slip safety as a guide for laying companies and users. The requested values of R10 to R13 (slanted level) cannot be measured on the finished floor. Experts make use of the sliding friction test method in order to get comparable values ROMEX® has carried out comparative testing on 12 different, rough floor coatings and can thus produce comparable classification for the finished project. You can find all the measured and test values in the research report "Slip safety" by ROMEX® Produktionsgesellschaft. Request your copy from us or download it at www.romex.de



Sliding friction instrument

Our service for your success.

ROMEX® SLIP SAFETY CONCEPT

We offer tailor-made safety concepts for your industrial floor coating, specifically for your special, industrial needs

- Analysis of your requirements
- Testing of floor system and shoes in your company environment
- Recommendation of the slip safety classification and shoe type
- Preparation of samples of the nonslip floor coating as well as laying of sample surface on site
- Presentation and checking of prepared slip safety concept with your expert for work safety
- Checking by using our sliding friction test machines on sample surfaces, during laying and after the coating has been completed
- Production of a test protocol for final inspection and release
- Regular checks to guarantee permanent safety



Technical information

Airless spray method

ROMEX® coatings and sealants with time and money saving airless spray method for floors, walls and ceilings.

Time is a major factor on most building sites. Work usually needs to be completed in a very short time and coatings need to have a perfect appearance and optimum characteristics. Thanks to use of the airless spray method, these requirements can now be fulfilled even better.

ROMPOX® 1009 Open to steam diffusion sealant is used with this method for thin coatings. Floors, walls, ceilings and angled rooms can be coated easily and efficiently using this method. ROMPOX® 1009 Open to steam diffusion sealant is excellent for use on cementbound surfaces that have rising damp. Thanks to its good water steam permeability, it can also be used on magnesite and anhydrite screeds as well as a sealant for hard poured asphalt indoors.

ROMPOX® 1009 open to steam diffusion sealant has the following properties:

- Epoxy resin based
- Open to steam diffusion
- For indoor and outdoor use
- Suitable for stadium stands
- Suitable for surfaces in contact with the ground
- Lightly structured surface
- Fulfils fire class B1 (flame resistant)
- Water emulsifiable
- Can be made nonslip by use of quartz sand or glass bead sprinkling
- Large selection of colours

Airless machines

Function

The airless spray method uses a pump powered by either an electric, pneumatic or petrol powered motor, to put the material under pressure and then press a defined amount of material with up to 540 bar through a nozzle forming a jet spray of material.

Recommended equipment

• Airless machines with membrane

Separation of material transport and machine system, thus easy to clean

• Airless machines with piston

Higher power but also need more cleaning

Compressor-powered units operate in contrast to electric or gasoline powered units without additional heat - the pot life can be fully utilized. Accordingly, compressor-powered devices are preferable. Transportable devices can be placed on a cart with material.

Requirements

The airless equipment needs to expel the material at a pressure of approx. 160 – 200 bar (setting dial with pressure gauge). The nozzle (made of stainless steel) should have a diameter >0,033 mm (standard 13 nozzle or 15 to 17 nozzles for larger surfaces.) Cleaning is done by spraying with water until no more material is left in the system. End of day final cleaning is done using a solvent. In between cleaning is only necessary in case of work interruption.



Example of a piston airless machine being used



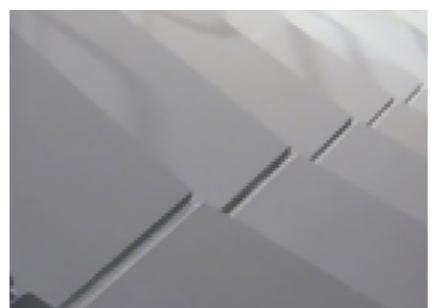
Membrane airless machine with compressor drive



Easy to clean turn nozzle for all airless machines

Advantages of airless spray technology

- Quick coating of large surfaces
- Easy application
- Quick drying
- Enormous time saving
- Visually attractive result from no roller marks
- Low material consumption
- Ideal for hard to access or angled areas
- Lower costs



Gloss grades

Testing according to DIN 67530

"Shine is an impression by the senses, created by the reflection of light rays onto the surface of a coating and perceived by the human eye"



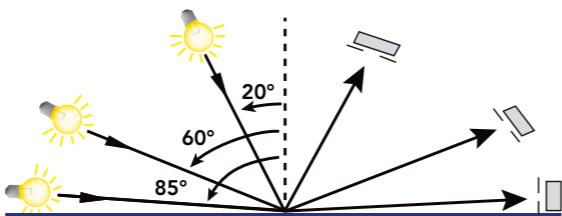
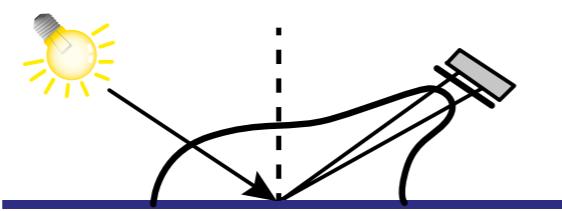
ROMPOX® 1005 coating, high gloss



ROMPUR® 2508 Matt sealant

Shine measuring is carried out using a reflectometer. The principle of the reflectometer is based on the measuring of the directed reflection. The intensity of the reflected light is measured within a narrow band of the reflection angle. The test results are not based on the quantity of light shone, but on a black, polished glass standard with defined refraction index. This standard uses the measured value 100 units of shine (100GE). It is possible to have materials and layers with values >100GE i.e. metal up to 2000GE. To differentiate better between the measuring values, depending on the shine, different measuring angles are used: high shine 20°, medium shine 60° and matt shine 85°. Nowadays "TriGloss" machines are used for measuring because they can measure all 3 angles.

Description	Measuring angle	Reflectometer value
Gloss	60°	> 60
Medium shine	60°	< 60
Medium shine	85°	> 10
Matt	85°	< 10
Dull Matt	85°	< 5



Thaw/melting point

according to ZTV-SIB 90

Air temperature in °C	Thaw/melting point in °C at a relative air humidity of approx.										
	45 %	50 %	55 %	60 %	65 %	70 %	75 %	80 %	85 %	90 %	95 %
2	-7,70	-6,56	-5,43	-4,40	-3,16	-2,48	-1,77	-0,98	-0,26	0,47	1,20
4	-6,11	-4,88	-3,69	-2,61	-1,79	-0,88	-0,09	0,78	1,62	2,44	3,20
6	-4,49	-3,07	-2,10	-1,05	-0,08	0,85	1,86	2,72	3,62	4,48	5,38
8	-2,69	-1,61	-0,44	0,67	1,80	2,83	3,82	4,77	5,66	6,48	7,32
10	-1,25	0,02	1,31	2,53	3,74	4,79	5,82	6,79	7,65	8,45	9,31
12	0,35	1,84	3,19	4,46	5,63	6,74	7,75	8,69	9,60	10,48	11,33
14	2,20	3,76	5,10	6,40	7,58	8,67	9,70	10,71	11,64	12,55	13,36
15	3,12	4,65	6,07	7,36	8,52	9,63	10,70	11,69	12,62	13,52	14,41
16	4,07	5,59	6,98	8,29	9,47	10,61	11,68	12,66	13,63	14,58	15,54
17	5,00	6,48	7,62	9,18	10,39	11,48	12,54	13,57	14,50	15,36	16,19
18	5,90	7,43	8,83	10,12	11,33	12,44	13,48	14,56	15,41	16,31	17,25
19	6,80	8,33	9,75	11,09	12,26	13,37	14,49	15,47	16,40	17,37	18,22
20	7,73	9,30	10,72	12,00	13,22	14,40	15,48	16,46	17,44	18,36	19,18
21	8,60	10,22	11,59	12,92	14,21	15,36	16,40	17,44	18,41	19,27	20,19
22	9,51	11,16	12,52	13,89	15,19	16,27	17,41	18,42	19,39	20,28	21,22
23	10,44	12,02	13,48	14,87	16,04	17,29	18,37	19,37	20,37	21,34	22,23
24	11,34	12,93	14,44	15,73	17,06	18,21	19,22	20,33	21,37	22,32	23,18
25	12,20	13,83	15,37	16,69	17,99	19,11	20,24	21,35	22,27	23,30	24,22
26	13,15	14,84	16,26	17,67	18,90	20,09	21,29	22,32	23,32	24,31	25,16
27	14,08	15,68	17,25	18,57	19,83	21,11	22,32	23,31	24,32	25,22	26,10
28	14,96	16,61	18,15	19,38	20,86	22,08	23,18	24,28	25,25	26,20	27,18
29	15,85	15,58	19,04	20,48	21,83	22,97	24,20	25,23	26,21	27,26	28,18
30	16,79	18,44	19,96	21,44	23,71	23,94	25,11	26,10	27,21	28,19	29,09
32	18,62	20,28	21,90	23,26	24,65	25,79	27,08	28,24	29,23	30,16	31,17
34	20,42	22,19	23,77	25,19	26,54	27,85	28,94	30,09	31,19	32,13	33,11
36	22,23	24,08	25,50	27,00	28,41	29,65	30,88	31,97	33,05	34,23	35,06
38	23,97	25,74	27,44	28,87	30,31	31,62	32,78	33,96	35,01	36,05	37,03
40	25,79	27,66	29,22	30,81	32,16	33,48	34,69	35,86	36,98	38,05	39,11
45	30,09	32,17	33,86	35,38	36,85	38,24	39,54	40,74	41,87	42,97	44,03
50	34,76	36,63	38,46	40,09	41,58	42,99	44,33	45,55	46,75	47,90	48,98