Akem
Kimya San. ve Tic. Ltd. Şti.

CATALOGUE 2026



THE INVISIBLE SOLUTION FOR WET FLOORS

PLAS ANTI SLIP®

Anti-slip floor solution that prevents slipping on wet floors without changing the look of the floor.

Invisible
NOT A COATING

3 steps
TWO-PRODUCT SYSTEM

COF
MEASURED BEFORE / AFTER

1000+
COMPLETED PROJECTS

AKEM KIMYA

Anti-slip floor solutions for safer steps

Akem Kimya San. ve Tic. Ltd. Şti. manufactures the PLAS ANTI SLIP® anti-slip floor solution and, with its own application team, treats thousands of square metres of floors from airports and hospitals to factories and hotels.

A large share of slip-and-fall accidents happen on wet, slippery floors. PLAS ANTI SLIP® increases grip on wet floors without removing, coating or changing the appearance of the existing floor. The friction coefficient is measured before and after application to document the improvement; the report can be added to your occupational safety file.





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03 Slippery floors and how it works

04 Key features

05 Products: Step 1-3 and Step 2

06 Application: 3 steps

07 Surfaces and areas of use

08 Measurement and standards

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11 Care, packaging and safe handling

12 References

- Referenced applications at airports, hospitals, hotels and factories
- Our own production and our own application team
- Free survey, trial area and measurement report

1000+	2 products	Invisible	Reported
PROJECTS	3-STEP SYSTEM	NOT A COATING	FRICTION MEASUREMENT

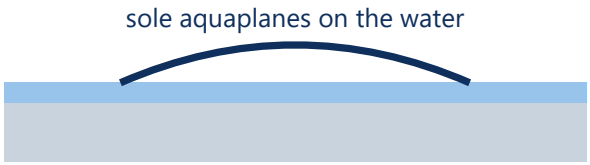
HOW IT WORKS

Why do wet floors get slippery, and what does PLAS ANTI SLIP® do?

Smooth surfaces such as ceramic, porcelain and polished stone are safe when dry. When they get wet, a thin film of water forms between the surface and the shoe sole or bare foot; contact is lost and the step slips.

Before

Water film on a smooth surface



Water forms a continuous layer between surface and sole; the friction coefficient drops.

After

Micro grip points



Invisible micro channels stop the water from forming a film; the foot keeps contact with the floor.

Not a coating – a treatment that works within the surface

No film layer

No layer forms on the surface that could peel, wear or yellow.

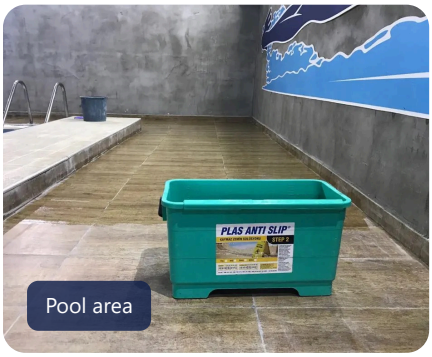
Appearance retained

The colour, pattern and natural look of the floor remain unchanged.

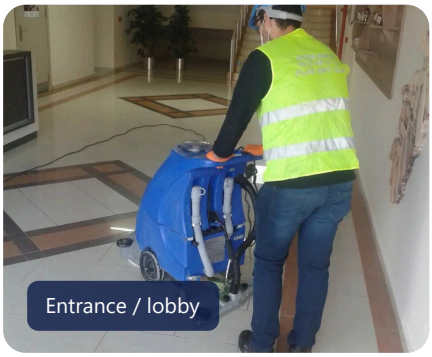
Effective when wet

Works when it matters most – when the floor is wet.

Note: A slight reduction in gloss may occur on glossy / polished surfaces; therefore appearance and slip resistance are checked together on a 30 × 30 cm trial area before every application.



Pool area


Entrance / lobby


Canteen corridor

BENEFITS

Key features

Grip on wet floors

Increases the friction coefficient of the surface and reduces the risk of slips and falls on wet floors.

Invisible effect

The treatment leaves no visible trace; the aesthetics and patterns of the floor are preserved.

Not a coating

Forms no film that could peel, blister or wear away over time.

No floor replacement

Applied in place without replacing the existing floor; the area is soon back in use.

Measurable result

The friction coefficient is measured and reported before and after application.

Easy care

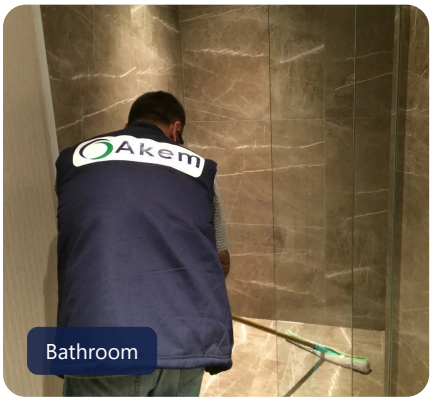
Daily cleaning continues with neutral cleaners; no special care products are needed.

Short contact time

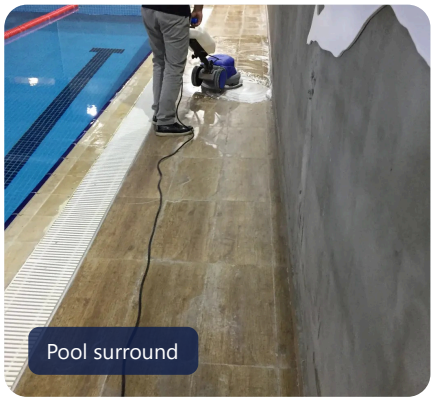
The contact time of the active step is 15 – 20 minutes; work can be planned in phases.

Safety documentation

The measurement report and conditions-of-use document can be added to your safety file.







PRODUCTS

Two products, one system

PLAS ANTI SLIP® consists of two products applied in three steps. The products are used together as a set.

STEP 1-3

Preparation and neutralisation

Alkaline cleaner. In step 1 it dissolves grease, dirt and residues and prepares the pores for Step 2; in step 3 it stops the Step 2 reaction and neutralises the surface.

STEP 2

Active anti-slip solution

Penetrates the pores of the floor, creating invisible micro grip points on the surface and increasing the friction coefficient on wet floors.

Property	Step 1-3	Step 2
Function	Preparatory cleaning and neutralisation	Active anti-slip solution
Appearance	Clear red liquid	Clear yellow liquid
Character / pH	Alkaline · pH > 12	Acidic · pH < 1
Relative density	1.00 ± 0.05 kg/L	1.00 ± 0.05 kg/L
Solubility in water	Soluble	Soluble
Use ratio (product : water)	1 : 4	1 : 1 – 1 : 3
Packaging	1 kg · 5 kg · 30 kg	1 kg · 5 kg · 30 kg

Values are typical values from the Safety Data Sheet.



PLAS ANTI SLIP® Anti-Slip Set, 5 kg each



PLAS ANTI SLIP® Anti-Slip Set, 1 kg each

Coverage: 1 kg Step 1-3 + 1 kg Step 2 treats on average 10 – 15 m², depending on the floor.

APPLICATION

Anti-slip floor in three steps

Before application, the surface type and absorbency are determined, any polish / polymer / coating is removed completely and a trial on a 30 × 30 cm area establishes the dilution ratio and contact time.



STEP 1 · STEP 1-3

Surface cleaning

- Dilute 1 : 4 with water; keep half
- Scrub with brush / machine
- Squeegee / vacuum, rinse, dry



STEP 2 · STEP 2

Anti-slip treatment

- Never poured; cloth, mop or sprayer
- Back-and-forth, towards the exit
- Kept WET throughout



STEP 3 · STEP 1-3

Neutralisation

- Kept solution, Step 2 still on
- Scrub to stop the reaction
- Collect and rinse thoroughly

Dilution and contact times

Surface	Dilution (Step 2 : water)
Dense surface	1 : 1
Medium surface	1 : 2
Sensitive surface	1 : 3

Surface type	Contact time
Ceramic / tiles	15 – 20 min
Marble / granite / porcelain	15 – 20 min
Terrazzo	approx. 20 min

The suitable dilution ratio is determined on the trial area.

Critical: Step 2 must not dry on the surface during the contact time; re-apply where it dries quickly. Do not apply in direct sunlight or rain.

Equipment: plastic bucket, cloth / mop with holder, pump sprayer, brush or floor machine (no abrasive pads), squeegee / wet vacuum, gloves and goggles.

WHERE IS IT USED?

Surfaces and areas of use

Suitable surfaces

Ceramic | Wall/floor tiles | Porcelain tiles | Vitrified tiles | Marble | Granite | Travertine | Terrazzo | Mosaic stone | Floor tiles | Polished floors*

* On polished floors, the polish must be completely removed before application.

Areas of use

Pools and SPA

Pool surrounds, showers, changing rooms, Turkish baths and saunas – wet floors walked on barefoot.

Kitchens and canteens

Commercial kitchens, dishwashing areas, canteens, restaurants and catering – floors with water and grease.

Healthcare and education

Hospitals, health centres, schools, nurseries and dormitories; bathrooms and WC areas.

Commercial areas

Hotels, shopping centres, office lobbies, building entrances, metro and tram stations.

Industry

Factories, food and pharmaceutical production, workshops, warehouses and ramps.

Transport and public

Airport terminals, public buildings, sports facilities and social facilities.







MEASUREMENT

Measured safety

How slip-resistant a floor is should be measured, not guessed. The friction coefficient (COF) of the wet floor is measured before and after every AKEM application.

Measurements are taken with ASM 825A and FLOOR SLIDE CONTROL 2000 instruments and the results are delivered as an area-by-area report. The improvement is thus documented, and the report can be added to the occupational safety file.





> **Class and field measurement are not the same.** R and A/B/C classes are determined in the laboratory by ramp test; the value measured in the field on an existing floor is the friction coefficient.

DIN 51130 · shod areas

Class	Slip angle	Typical area
R9	6° – 10°	Entrance halls, sales areas
R10	10° – 19°	Toilets, garages, small kitchens
R11	19° – 27°	Commercial kitchens, laundries
R12	27° – 35°	Food production, large kitchens
R13	above 35°	Production with heavy oil load

DIN 51097 · barefoot, wet

Class	Slip angle	Typical area
A	12° and above	Changing rooms, barefoot corridors
B	18° and above	Showers, pool surrounds, pool steps
C	24° and above	Sloping pool entries, stairs

In DIN 51130 the surface is contaminated with motor oil, in DIN 51097 with soapy water; the angle at which slipping begins determines the class.

Measurement process

01
Measurement on the wet floor before application

02
Area-by-area recording of measuring points

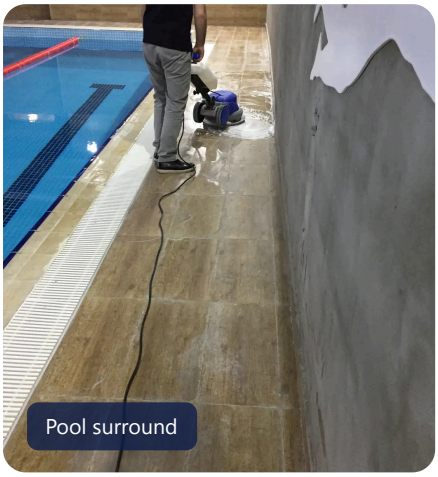
03
Measurement at the same points after application

04
Before / after comparison report

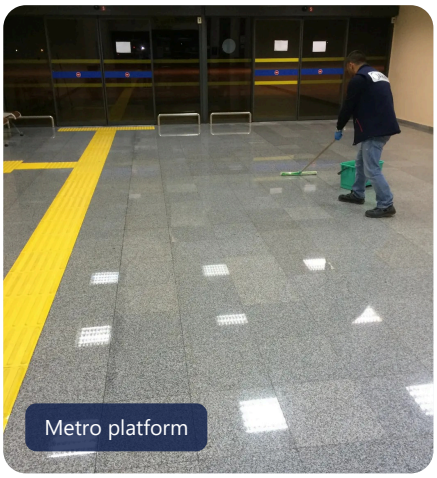
FROM THE FIELD

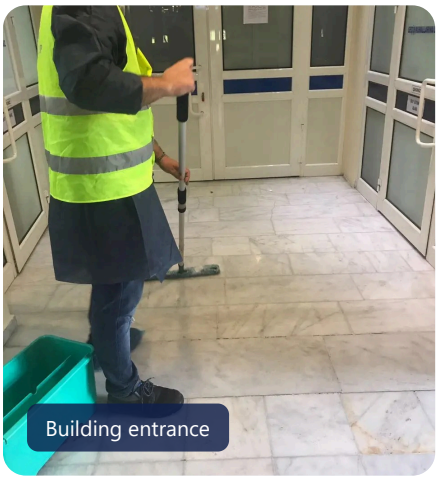
Snapshots from our projects

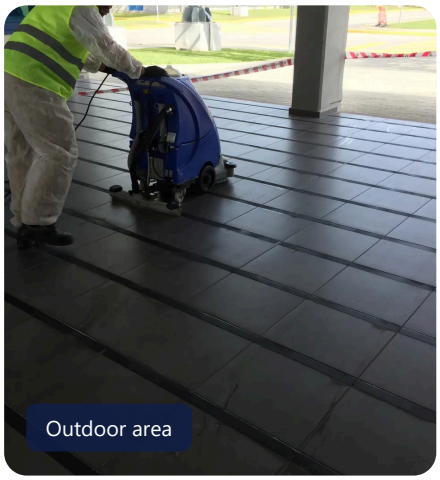
Examples from projects we have completed, from airports to factories and from hotel wet rooms to pool surrounds. These applications were carried out by our own team and handed over with measurements.

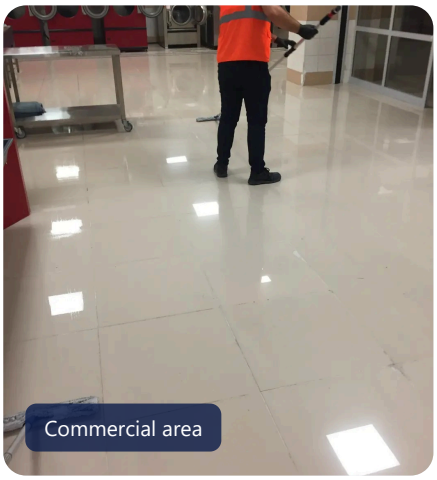

Pool surround


Commercial kitchen


Metro platform

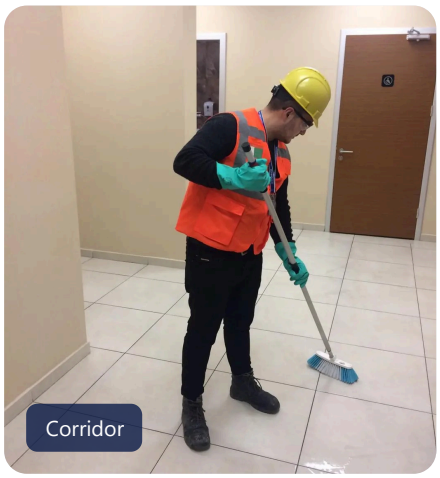

Building entrance


Outdoor area


Commercial area



Outdoor walkway


Corridor



Bathroom · shower

SOLUTION MODELS

Turnkey application or do-it-yourself set

Turnkey application

For projects, shopping centres, hotels, hospitals and industrial sites we carry out the application with our own team.

1. Free site survey and floor analysis
2. Friction measurement before application
3. Trial area and work schedule
4. Scheduled application in phases
5. Post-application measurement and report
6. Handover of conditions of use and care guide

Do-it-yourself sets

Sets of Step 1-3 and Step 2 for small areas, homes, bathrooms and in-house teams. Available from the Akem Kimya online store.



Set 1 kg each · ≈ 10 – 15 m²



Set 5 kg each · ≈ 50 – 75 m²

> Each set contains Step 1-3 and Step 2; the instructions for use and TDS are available on request.

Survey
free on-site assessment

Team
our own trained application team

Report
before / after measurement report

Support
care and cleaning advice





USE

Care, packaging and safe handling

Care and cleaning after application

Do

- Use neutral cleaners for daily cleaning.
- After soap-based products rinse the floor well; a soap film reduces the effect.
- Deep-clean every 6 months with a degreaser or Step 1-3.

Avoid

- Hydrochloric acid, caustic soda and floor-damaging chemicals
- Cleaners with polish, coatings, polymers and crystallisers
- Abrasive pads for machine cleaning

The treatment loses its effect where tiles are replaced or polish / coatings are applied; the treatment must be renewed in these areas.

Packaging

Product	Packaging
Step 1-3	1 kg · 5 kg · 30 kg
Step 2	1 kg · 5 kg · 30 kg
Set	1 kg each · 5 kg each

Storage

- In the original closed packaging; in a cool, dry place out of the sun.
- Store Step 1-3 and Step 2 separately; never transfer Step 2 into glass or metal containers.
- Shelf life: 24 months unopened.

Safe handling

Protection

Gloves and safety goggles; good ventilation.

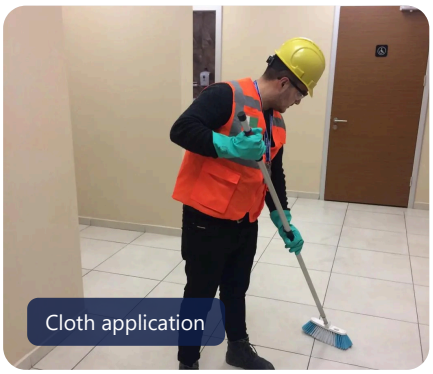
Separate tools

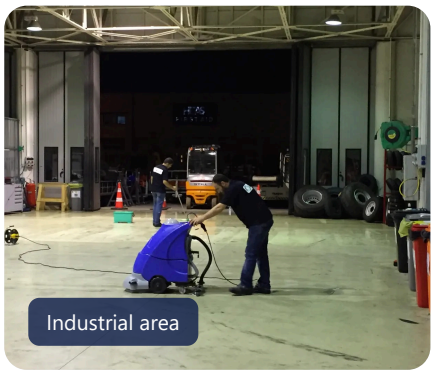
Never mix the two products in one container.

Surface protection: Step 2 must not come into contact with glass, aluminium, stainless steel or other metals. Protect these surfaces before application.

The Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available on request.


Machine cleaning


Cloth application


Industrial area

REFERENCES

Organisations that trust us

We have carried out anti-slip treatments in more than 1,000 projects. A selection of our references is shown below; the full list is at www.plasantislip.com/referanslar.

AIRPORTS, PUBLIC AND TRANSPORT

İGA HAVALİMANI · T.C. BAŞBAKANLIK ANKARA · İBB SARAÇHANE · İBB MERTER EK HİZMET BİNASI · DHMİ BURSA YENİŞEHİR HAVALİMANI · DHMİ HAVA TRAFİK KONTROL MERKEZİ · PEGASUS SABİHA GÖKÇEN · İETT TAKSİM TRAMVAY TÜNELİ · MUĞLA VALİLİĞİ · DSİ İZMİR · TEİAŞ 4. İLETİM BÖLGE MÜD. · BURSA İNEGÖL BELEDİYESİ · İBB SOSYAL TESİSLERİ · İBB ATATÜRK KİTAPLIĞI · TARİHİ KARAKÖY BALIK HALİ

HOTELS, SPA AND SPORTS

CROWNE PLAZA FLORYA · MÖVENPICK HOTEL İSTANBUL · RADISSON BLU ATAKÖY SPA · RADISSON BLU BATIŞEHİR · SELECTUM LUXURY RESORT BELEK · CEVAHİR HOTEL ASIA · HOTEL BOURSIER · YAŞMAK HOTEL · MACFIT MARS ATHLETIC · SPOR A.Ş. HALKALI YÜZME HAVUZU · TÜRKİYE YÜZME FED. TOZKOPARAN · ESSPORTO METRO CITY · WELL CLUB FITNESS · ÖZGER TERMAL · ES AQUA GARDEN

HEALTHCARE AND EDUCATION

ÖZEL ANADOLU SAĞLIK MERKEZİ · ÖZEL RUMELİ HASTANESİ · SURP PİRGİÇ HASTANESİ · YALOVA ARMUTLU DEVLET HASTANESİ · SOMA DEVLET HASTANESİ · MEF INTERNATIONAL SCHOOL · İSTEK OKULLARI · BİLFEN KOLEJİ · GÖKKUŞAĞI KOLEJİ · BEYKOZ ÜNİVERSİTESİ · ESBAŞ SPACE CAMP

INDUSTRY, FOOD AND PHARMA

FORD OTOSAN YENİKÖY · ABB TRAFO · CLARIANT · MONDELEZ KENT GIDA · IFF TURKEY · AROMSA · CP PİLİÇ · AKKAR GIDA · SIRMA GRUP İÇECEK · ABDİ İBRAHİM İLAÇ · ALİ RAİF İLAÇ · GRİPİN İLAÇ · SCHENKER ARKAS · DSM GRUP TRENDYOL · GEBKİM OSB · İLTEK ENERJİ HES

COMMERCIAL, OFFICE AND RESIDENTIAL

KANYON AVM · ALLIANZ TOWER · HALKBANK GENEL MÜDÜRLÜK · AKBANK KOCAELİ · KAĞITHANE OFİSHANE PLAZA · AĞAOĞLU MY WORLD MOONTOWN · DOĞUŞ OTO VOLKSWAGEN · BURGER KING ÇAĞLAYAN · HATAY MEDENİYETLER SOFRASI · PARILTIM CATERING · YEMEK İSTANBUL CATERING · ARKHEON SİTESİ · KEMERPARK EVLERİ · SUUDİ ARABİSTAN AL REMEL PROJESİ

Akem
Kimya San. ve Tic. Ltd. Şti.

We are with you for safer steps.

Contact us for a free site survey, trial application, friction measurement and quotation. Safety Data Sheets (SDS), Technical Data Sheets (TDS) and application instructions are available on request.
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