

REC COAT CT 11500

ACRYLIC RESIN-BASED COLOURED COATING IN WATER DISPERSION WITH SELECTED FILLERS, FOR COATING CYCLE TRACKS, FOOTPATHS AND STREET FURNITURE

DESCRIPTION

A **REC COAT CT 11500** is an acrylic resin in water dispersion with selected fillers specifically formulated in RECKON Research & Development laboratories for coating and protecting cycle lanes, pedestrian and urban design areas. **REC COAT CT 11500** meets the principles defined in EN 1504-2.

PRIMARY APPLICATIONS

- Coating bitumen and cementitious substrates.
- Protecting and colouring bituminous conglomerate or cementitious surfaces subject to a high level of footfall, on cycle lanes and pedestrian areas, in stadiums or sports facilities in general.
- Protecting and colouring bitumen or cementitious surfaces that need to have a high level of slip-resistance, including in wet weather conditions.
- Protecting and marking out the surface of access/exit routes, such as outdoor stairs or concrete ramps.
- Coating and colouring Reckon waterproofing systems subject to a high level of footfall.
- Colouring and protecting concrete architectural elements.

RECOMMENDATIONS

- Do not dilute **REC COAT CT 11500** with solvent.
- Do not apply **REC COAT CT 11500** directly on dusty, crumbling or weak surfaces.
- Do not apply **REC COAT CT 11500** on substrates with oil or grease, or dirt in general.
- **REC COAT CT 11500** is not a membrane and therefore does not replace traditional waterproofing products (whether cement, bituminous or polyurea based), **REC COAT CT 11500** is compatible with traditional Reckon waterproofing systems; however, it is recommended to check with Technical Service on any precautions to be taken before the final coating is installed.
- The concrete substrate must be completely cured (min. 28 days with residual moisture under 3%) and free from rising damp. In case of new concrete substrates, apply a suitable vapour barrier.
- New asphalt substrates must be cured for at least 15-20 days, according to climatic conditions, to allow correct oxidation.
- Do not use **REC COAT CT 11500** on substrates with water in counter-pressure. The surface of such substrates must be treated with appropriate products, and then the possibility of applying **REC COAT CT 11500** must be assessed.
- **REC COAT CT 11500** can only be applied over other finishes after careful examination of the condition of the existing coating and preliminary tests to ensure compatibility and adhesion between the old finish and **REC COAT CT 11500**.
- It is possible to apply **REC COAT CT 11500** on cementitious substrates only after priming them.
- Do not apply if it is about to rain or in windy weather.
- Do not apply on damp or wet surfaces.
- The temperature of the substrate must be between +10°C and +50°C.
- Do not apply at temperatures lower than +10°C or higher than +35°C.

TECHNICAL INFORMATION

Complies with the following standards:

- Product certified according to EN 1504-2 (Surface protection systems for concrete), system 2+ and 3 class of membership according to EN 1504-2: surface protection products - coating - protection against penetration risk (1.3) (ZA.1d) + moisture control (2.2) and increased resistivity (8.2) (ZA.1e), physical resistance (5.1) (ZA.1f), chemical resistance (6.1) (ZA.1g) (C, principles PI - MC - PR - RC - IR)

PRODUCT IDENTITY

Consistency:	thick liquid
Colour:	white, colour chart, or various colours using the ColorMap® automatic colouring system
Density (EN ISO 2811-1) (g/cm³):	approx. 1.43
Dry solids content (EN ISO 3251) (%):	approx. 71

FINAL PERFORMANCE

VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC) (g/l):	≤ 50
Water capillary absorption coefficient W24 [(kg/(m²·h ^{0.5}))] (EN 1062-3):	< 0.1
Crack resistance - static crack bridging (EN 1062-7):	class A4 (> 1.25 mm)
Crack resistance - dynamic crack bridging (EN 1062-7):	class B4.1
Resistance to fuels (UNICHIM N. 394 par. 6.4), test report ANAS 2133/0359/11:	no defects
Resistance to lubricants (UNICHIM N. 394 par. 6.3), gearbox oil, test report ANAS 2133/0359/11:	no defects
Resistance to saline solutions (UNICHIM N. 394 par. 6.2), NaCl e CaCl ₂ saturated solutions, test report ANAS 2133/0359/11:	no defects
Skid resistance (sliding friction) (EN 1436) test report ANAS 2133/0359/11, BPN:	62 (class S4 (SRT ≥ 60))
Dynamic friction coefficient:	
- rubber, dry surface (μ):	0.85
- rubber wet surface (μ):	0.65
- leather, dry surface (μ):	0.43
- leather, wet surface (μ):	0.69

PERFORMANCE CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 1504-2, SYSTEMS 2+ AND 3 - CLASS ZA.1d + ZA.1e + ZA.1f + ZA.1g (C, principles PI - MC - PR - RC - IR)

Main characteristic	Test method	Requirements according to EN 1504-2 coating (C) principles PI - MC - PR - RC - IR	Performance of product
Permeability to CO ₂ :	EN 1062-6	μ : s_D (m): dry thickness according to s_D (m): result/class:	408,790 818 0.002 complies ($s_D > 50$ m)
Permeability to water vapour:	EN ISO 7783	μ : s_D (m): dry thickness according to s_D (m): result/class:	1781 3.6 0.002 I ($s_D < 5$ m)
Capillary absorption and water permeability:	EN 1062-3	w [(kg/(m ² ·h ^{0.5}))]: result/class:	0.02 compliant ($w < 0.1$)
Thermal compatibility: ageing: 7 days at +70°C:	EN 1062-11 4.1	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Thermal compatibility: freeze-thaw cycling with de-icing salt immersion:	EN 13687-1	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Thermal compatibility: thunder-shower cycling:	EN 13687-2	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Thermal compatibility: thermal cycling without de-icing salt impact:	EN 13687-3	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Resistance to temperature shock	EN 13687-5	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Bond strength by pull-off:	EN 1542	result/class:	compliant (adherence ≥ 0.8 N/mm ²)
Reaction to re:	EN 13501-1	euroclass	BFL-s1
Slip resistance:	EN 13036-4	result/class:	III external (>55 units per test on wet surface)
Exposure to artificial atmospheric agents:	EN 1062-11:2002 4.2	result/class:	compliant

Abrasion strength:	EN ISO 5470-1	Δ disk weight H22, 1000 cycles (g):	< 1.5
Chemical resistance		result/class:	compliant (Δ weight < 3 g)
Group 3 (oil / fuel):	EN 13529	result/class:	compliant
Group 1 (gasoline):			compliant

OTHER PERFORMANCE CHARACTERISTICS

	Standard	Performance of
Ion chloride diffusion - penetration:	UNI	0.0 mm

DIRECTIONS FOR USE

PREPARATION OF THE SUBSTRATE

Before applying **REC COAT CT 11500**, ensure that the substrate is at, clean and free from dust, dirt, oil, grease, release agents, wax, old detaching coating residues, and from any other substance or condition which may compromise or reduce the adhesion of the product. The mechanical strength of the surface must comply with its intended use and with the respective Sports Associations and Federations guidelines, if present.

CONCRETE SUBSTRATES

The surface of the floor must be prepared with suitable power tools (e.g. shot-blasting or grinding with a diamond disk) to remove all traces of dirt, cement laitance and crumbling or detached portions and to make the surface slightly rough and absorbent.

Before applying the product, carefully vacuum off the dust from the surface. As an alternative to the mechanical treatment described above, in case of smooth and low-absorbency surfaces, rinse with a solution of clean water and 5-10% REC Cleaner. Spread the solution on the whole surface using a brush or a single disc buffing machine and then rinse again with plenty of clean running water (for further information please refer to REC Cleaner Technical Data Sheet).

In order to grant the correct adhesion of **REC COAT CT 11500**, a suitable primer must be applied on the dry substrate. In case of substrates with residual moisture up to 3% use REC Primer.

Apply the first coat of **REC COAT CT 11500** within 24 hours of applying Rec Primer and within 36 hours if a moisture barrier has been applied.

Repair any cracks in the surface using epoxy resins such as REC DUR 100 or equivalent Rec products. If necessary, repair damaged concrete areas with cementitious mortars from the Rec grout or self level range or equivalent RECKON products. Expansion joints must be sealed with REC FLEX PU 425 or equivalent REC products, and broadcasted with Quartz 0.5 while the sealant is still fresh.

BITUMINOUS SUBSTRATES

Fill and repair any cracks using fillers for high thickness applications such as REC asphalt repair, or PU two-component, quick-drying products.

In the presence of hollows up to 2 cm deep, the use of a balanced mix of the above-mentioned products and 15-20% by weight of dry silica sand Quartz 0.9 is recommended. Broadcast with Quartz 0.5 or Quartz 0.9 on the surface while it is still fresh, making sure it is completely saturated.

Badly damaged and worn asphalt must be removed and replaced by applying REC Asphalt Repair.

PREPARATION OF THE PRODUCT

Mix **REC COAT CT 11500** in its original packaging with a suitable electric mixer fitted with a mixing attachment at low speed to avoid entraining air into the product. Dilute **REC COAT CT 11500** with water

and mix for at least 2 minutes until an even mix is obtained. It is recommended to keep the mix well blended during the application phase repeating the mixing operation.

REC COAT CT 11500 Amount of water
20 kg from 1 to 3 l

APPLICATION OF THE PRODUCT

Apply **REC COAT CT 11500** with a rubber trowel (50 or 70 Shore hardness, such as trowel 65 for RECKON CT), a roller (such as mohair 5 mm), or by spray (with an air-HVLP spray gun).

It is recommended to apply **REC COAT CT 11500** follows:

- 2 coats, if used as coating for colouring new or existing surfaces.
- 3 coats, in case of very bright/vivid colours (lemon yellow, bright red, orange, etc.), which may not cover perfectly.

DRYING

In 12–24 hours at +23°C and 50% humidity.

Always check drying times based on weather conditions (low temperatures, potential shadow areas, high humidity), which strongly affect drying and re-coat times.

CONSUMPTION

Coats	Consumption on porous substrates	Consumption on non-porous substrates
First coat	0.8-1 kg/m ²	0.4-0.5 kg/m ²
Second coat	0.4-0.5 kg/m ²	0.4-0.5 kg/m ²

CLEANING

Clean tools with water while the product is still fresh.

Once dry, **REC COAT CT 11500** Removal can only be removed mechanically.

PACKAGING

REC COAT CT 11500 is available in 20 kg.

STORAGE

REC COAT CT 11500 has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 30°C.

If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

HEALTH & SAFETY

REC COAT CT 11500 is not classified as hazardous material. **REC COAT CT 11500** should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Tell: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

