BARBOT

TECHNICAL DATASHEET

DATE: 01/07/2026 **REV. 05**

3463 MULTIDIARAL ATS

Mixture

Epoxy coating for application on metallic substrates in highly corrosive environments and for use on concrete floors, for both interior and exterior applications.

SUPPLY FORM

2 L KIT (Resin: 1 L; Cure: 1 L). Available in Base P (0.98 L) and Base TR (0.85 L).
10 L KIT (Resin: 5 L; Cure: 5 L). Available in Base P (4,9 L) and Base TR (4,25 L).

MAIN PROPERTIES

- High durability
- Good chemical resistance
- Good hot tyre resistance
- Excellent adhesion to the substrate

ADDITIONAL PORPERTIES

- Available in the Barbotmix Industrial tintometric system
- CE marking according with EN 13813.

TYPICAL USES

Intended for painting areas where surface preparation by stripping is difficult or impractical. Used as a maintenance coating on poorly prepared surfaces. Suitable for concrete floors and concrete swimming pools.

BARBOT

PRODUCT CARACTERISTICS	
Category	Industry
Segment	Floors
Sub-Segment	Solvent based
Exposure	Interior/Exterior
Layer	Direct to surface
Gloss	Satin
Texture/Finish	Smooth
Colour	RAL and NCS colour charts. Other colours upon request.
Tinting system	Barbotmix Industrial.
Main substrate	Concrete/Cement
Additional substrates	Steel
Binder Type	Epoxy
French Norm NF T 36-005	Class 6, b
Number of components	2
Practical coverage	7 – 8 m^2/L/coat
Storage Stability and Validity	2 years, when stored in the original packaging. Store in a dry place, protected from direct sunlight, at temperatures between 5 °C and 40 °C

TECHNICAL CARACTERISTICS (according with certificates and tests)	
Gloss	
ISO 2813	30 ± 5 UB a 60 °
Specific Gravity (Density)	
ISO 2811-1	Multidiaral ATS Base P and Base TR – 1,40 ± 0,10 kg/L Endurecedor Multidiaral – 1,35 ± 0,05 kg/L
Viscosity	
ASTM D562	105 ± 5 UK
Volume solids	
ISO 3233-1	85 ± 2 %

Barbot Portugal - Indústria de Tintas, S.A. Rua dos Borneiros, 466 4410-295 Vila Nova de Gaia tel: +351 227 169 200 fax: +351 227 169 212 barbot.sede@barbot.pt
Barbot Angola: Rua Cónego Manuel das Neves, 53-55 Luanda - Angola tel: +244 921 199 998 barbot.angola@gmail.com
Barbot Cabo Verde: Z. I. Tira-Chapéu Cidade da Praia – Ilha de Santiago tel: +238 260 07 40 caboverde@barbot.pt
Barbot Moçambique: Av. do Rio Limpopo, no 185 Alto Maé - Maputo - Moçambique
Jallut Pinturas, S.L.U.: C/ Pintor Joan Miró, 26 Polígono Industrial Can Humet de Dalt 08213 POLINYA Barcelona

Reaction to fire	
ISO 13501-1	B_{FL}-s1 [1]
Adherence	
ISO 4624	> 2 MPa
Flash point	
ISO 1523	Multidiaral ATS Base P and TR – 40 ºC Endurecedor for Multidiaral – 25 ºC
Sustainability	
COV (volatile organic compounds)	EU limit for this product (cat A/j): 500 g/L. This product contains a maximum of 162 g/L COV.

NOTE: * The stated VOC value refers to the product ready for use, including tinting, dilution, etc., with products from our company and recommended by us. We accept no responsibility for products obtained by mixing with products not recommended by us

ANEX II – Thermal resistance	
	Continuous – 90 °C, in a dry environment. Intermittent – 150 °C, in a dry environment.

ANEX III- Chemical Resistance

	Contact time	
Spilled product	**2 hours**	**24 hours**
Crude oil	+	+
Diesel fuel	+	+
Phosphoric acid	±	±
Isopropyl alcohol	+	+
MEK	-	-
Cyclohexanone	+	-
Water	+	+
hydrochloric acid 10 %	+	+
Hypochlorite 13%	+	+
Sonasol (generic detergent)	+	±
KOH	+	+
Acetic acid 20 %	+	+
Sulphuric acid 10 %	+	+
Xylene (S1426)	+	+
Ethanol 70 %	+	+
Sodium hydroxide15 %	+	+
Engine oil	+	+

+ resistant; ± slight attack (colour; gloss; hardness); - not resistant

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Summary Table – Declaration of Performance (CE Marking)

CE	BARBOT – INDÚSTRIA DE TINTAS, S.A. Rua dos Borneiros, 466 4410-295, Vila Nova de Gaia, Portugal
20	
EN 13813 Declaration of performance: BRB-PT-3463-01	
Continuous flooring system	
Classification	**SR-BFLs1-B2-IR7-AR0,5**
Pull-off adhesion	> 2 N/mm^2
Reaction to fire	B_{FL}-s1
Impact resistance	IR 7
Abrasion resistance	AR 0,5
Dangerous substances	SR synthetic resin coating
www.barbot.pt	

SURFACE PREPARATION

New Substrates

Concrete/Cement

The floor must be inspected prior to surface preparation to assess its condition and determine the appropriate method or combination of methods to be used. The concrete must be sound, with a minimum compressive strength of 25 N/mm² and a minimum tensile strength of 1.5 N/mm². New concrete must be at least 28 days old and must not contain additives or curing compounds. The concrete must be free from sealers, air-release agents, form-release agents and curing agents containing waxes, silicones or silicates. The concrete surface must be suitably roughened and free from oils, grease and moisture. The residual moisture content of the substrate must be below 4% (measured with a TRAMEX CME IV). If laitance is present, it must be removed using an acid solution or by shot blasting. Concrete must be prepared by mechanical means (grinding, shot blasting or milling) or by chemical methods, depending on its porosity. Floor grinding is required to achieve surface planarity, as well as cleaning with Barbofloor 970 Cleaner alkaline detergent whenever necessary.

Steel

For situations where steel surface preparation by abrasive blasting (the most effective and economical method) is impossible or impractical, the use of MULTIDIARAL is recommended. In such cases, all loose rust (by mechanical means), dirt, oils, grease and other surface contaminants must be removed. Mechanical wire brushing in accordance with St 3 or manual wire brushing in accordance with St 2 is recommended. Existing coatings to be overcoated must be firmly adherent and thoroughly cleaned prior to the application of MULTIDIARAL as a maintenance coating.

Swimming pools

Please consult the Technical Services.
Swimming pools painted with Multidiaral ATS may only be put into service 8 days after application of the final coat.

Note for swimming pool applications: For applications in swimming pools, only light colours formulated from Base P are recommended. After application, the pool should not be left empty and exposed to UV radiation for prolonged periods. It should be protected or put into service as soon as possible. Once the pool is in use, regular water treatment is recommended, avoiding shock treatments or excessive dosing of chemicals, particularly at the beginning of the season, as these may adversely affect the durability and appearance of the coating.

Previously painted substrates	

Remove the existing coating system if it is poorly adhered, lacks cohesion or is incompatible, and subsequently proceed as for new substrates.
If the existing system is in good condition, carry out mechanical abrasion to promote adhesion and apply the coating system without the use of a primer.

APPLICATION CHARACTERISTICS	
Paint systems	
Floors	
New Substrates	
Concrete/Cement/Steel	

Smooth finish
Apply 2 to 3 coats of Multidiaral ATS with a coverage of 7 – 8 m^2/L/coat.

Previously painted substrates	
In good condition	Carry out mechanical abrasion over the entire surface and subsequently proceed with application in accordance with the selected system.
In bad condition (with pathologies)	After appropriate surface preparation, proceed with application in accordance with the selected system, following the same procedure as for new substrates.
Environmental conditions	
Application/Drying	Room temperature – entre 10 e 30 °C Relative humidity – below 80 % Substrate moisture – below 4 % Substrate temperature: 10 – 30 °C (Warning: substrate temperature must be a minimum of 3 °C above the dew point).
Application Instructions	
Product preparation	

1. Open the containers only at the time of use.
2. Add ENDURECEDOR MULTIDIARAL to MULTIDIARAL ATS in the recommended proportions and mix with a mechanical mixer for approximately 5 minutes. NOTE: As the pot life of the mixture is limited, particularly at higher temperatures, do not mix more material than can be used within the working time.
3. After complete homogenisation, transfer the mixture to a clean, empty container and mix again.

Application tools

Brush, roller and airless spray gun

Application process

1. Apply the product to the substrate using the recommended equipment.
2. After use, clean all equipment immediately with the recommended thinner.
3. After application, any unused product will continue to react and, once the pot life has been exceeded, it can no longer be applied. In this case, residues must be disposed of in accordance with the applicable legislation.

Mixing of components	
Proportion	1:1 by volume
Pot-life	45 minutes at 21 °C
Thinner	Dil. 1929 (for spray application) or Dil. 1930 (for roller/brush application)
% Dilution	Brush and roller: 1ª coat up to 10 % 2ª e 3ª coats up to15 % Pistola *airless*: 5 %
Recommended thickness	125 µm
Number of coats	2 to 3 coats
Time between coats	16 hours
Drying time (at 20 ºC and 50 % of relative humidity)	
Touch/surface dry	6 hours
Through dry	24 hours
Minimum recoating time	16 hours
Maximum recoating time	24 hours
Full cure	5 days
Cleaning thinner	Diluente celuloso (Cellulose Thinner)

Risks and Safety	For further information, please request the Safety Data Sheet at fds@barbot.pt

NOTES

[1] Classification valid within the system according to the product Declaration of Performance.

OBSERVATIONS

The characteristics of this product may be changed without prior notice as a result of the continuous research and development policy of Barbot – Indústria de Tintas, S.A. This information is based on our current knowledge of the product; however, since the conditions of use are beyond our control, no guarantee of results is given.