

POLEPOX-DP 815

DUSTPROOF SYSTEM



POLEPOX-DP 815 is epoxy-based, anti-dust, hardening, soaking, transparent or colored, two-component resin. Clear or colored deep-impregnation epoxy resin which creates a dustproof, colored surface suitable for indoor substrates with light to medium traffic. Creates colored, easy-to-clean flooring without joints.

Ideal for old and new surfaces, for light and medium circulation such as industrial, troweled floorings, mosaics, cement surfaces, workshops, storehouses, even for metallic surfaces or walls in food industries.

Eliminates dust from decay in old & new floorings, reinforcing their durability.

Offers high mechanical resistance and chemical protection against acid solutions, alkalis, oil, grease etc. Meets all

HEALTH STANDARDS.

Penetrates in depth, protects and hardens old absorbent cement surfaces.

It can be easily repaired locally if necessary.

Recommended for workshops, factories, warehouses and ideal solution for car parks.

Preparation – Application

Applied only on dry, smooth, concrete surfaces, protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- ✓ Preparation of the surface using a mosaic machine.
- ✓ **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and use of squeegees.
- ✓ Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions.
- ✓ Then, application of two or three layers with **POLEPOX-DP 815**, until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary. The next layer follows the other after the previous

dries within 6-12 hours depending on the ambient temperature and not more than 24 hours. The number of layers vary from one surface to another depending on the absorbency.

Colors : Following colorchart.

KDF

Sports Flooring Systems & Building Materials
45 YEARS OF EXPERIENCE



BEIGE



LIGHT GREY



DARK GREY



YELLOW



INDIAN RED



GREEN

The colors may vary slightly from the original due to digital representation.

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CERTIFICATE

The certification Body
EQA HELLAS
certifies that

KATASKEVES DAPEDON L.T.D.

HEADQUARTERS: 5 KOROMILA Str., GR 546 45 THESSALONIKI
PRODUCTION UNIT: LAKKOMA, GR 546 45 CHALKIDIKI

has established and applies a Quality Management System which is in conformance with

ELOT EN ISO 9001:2008
(Quality Management System)

PRODUCTION & SALES OF CHEMICAL BUILDING MATERIALS &
SYSTEMS. INSTALLATION OF ATHLETIC & INDUSTRIAL
WATERPROOFING FLOORS

FOR THE COMPANY
CHARALAMBOS GALATSANOS

This Certificate of Conformity Number **QMS 3817/14** first issued on the **29th July 2014** is valid until the **28th July 2017** and is subject to all applicable regulations within the accredited scope of EQA Hellas S.A. and under the condition of the issuing CB conducting required annual surveillance assessment visits.



CERTIFICATE NOS 193
QMS CERTIFICATION

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*Πρόσκόμιση ενυδακτώσεως ως και οποιαδήποτε πρόσθετο σχετικό με τον συγκεκριμένο πιστοποιημένο πελάτη

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Akkreditiertes Prüflaboratorium nach DIN EN ISO 17025 - DAP-PL-01.004-00

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Test report

P 4730-2-e

Testing order: **Testing of plastic material**
Epoxy Two-Component Resin (815)

Customer: **Polat S. A.**
34, 25th Martiou Str., N. Efkarpia
56429 Thessaloniki/Greece

Persons in charge: **J. Magner**
Dipl.-Ing. (FH) N. Treichel

Date of the test report: **2007-11-01**

This test report comprises: **7 pages**

The test results exclusively refer to the tested materials.
The publication of the test report in extracts, and references to tests for advertising purposes require our written agreement
in each individual case.



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1 SUBJECT

The Polymer Institut has been charged by the Polat S. A., Thessaloniki/Greece, to carry out plastic material tests of the material

Epoxy Two-Component Resin (815).

1.1 Testing programme

- Adhesive strength at 23 °C in accordance with EN ISO 4624
- Water absorption at 23 °C in accordance with ASTM D 570-98

2 RECEIPT OF SAMPLES

On 2006-12-06 the following materials have been submitted to the Polymer Institut by the customer:

Table 1: Receipt of samples

No.	Material designation	Quantity [kg]
1	Epoxy Two-Component Resin (815), component A	2,5
2	Epoxy Two-Component Resin (815), component B	2,5

3 PREPARATION OF TEST SPECIMENS

3.1 Preparation of the mixtures

The mixing proportion of the materials used are to be taken from the following table.

Table 2: Mixing proportions

Material	Mixing proportion in parts by mass	
	Component A	Component B
Epoxy Two-Component Resin (815)	50	50

The materials have been measured out in the above mixing proportion and mixed to homogeneity (about 3 min) using a laboratory propeller stirrer.



3.2 Coating of the substrates

The substrates have been coated at standard atmosphere DIN 50014-23/50-2 in accordance with specifications of the customer by an employee of the Polymer Institut.

Table 3: Coating of the substrates

	Consumption in [g/m ²] - Mean values -	
	1	2
Substrate	<i>1st layer</i> Epoxy Two- Component Resin (815)	<i>2nd layer</i> Epoxy Two- Component Resin (815)
Concrete slabs* 300 mm x 300 mm x 40 mm	220	180
Application tool	Roller	Roller
Waiting times	7 days	

* concrete slabs in accordance with EN 1766 of the quality C (0,45), blast-cleaned

3.3 Preparation of the free specimens

The test specimens have been prepared as indicated in the respective standard using the mixed material *Epoxy Two-Component Resin (815)*. The dimensions of the used test specimens are given in the respective clause. Prior to testing, the test specimens have been stored at standard atmosphere DIN 50014-23/50-2.



4 TESTS

4.1 Adhesive strength at 23 °C following DIN EN ISO 4624

The adhesive strength of the coating system including as primer *Epoxy Primer (824)*, as indicated in table 3, has been determined retaining the following test conditions:

Test apparatus: Company Freundl F20 D Easy M 2000
Test cylinder: Steel cylinder Ø 50 mm
Adhesive: 2-component polyurethane adhesive
Test speed: 100 N/s
Test temperature: 23 °C
Numer of measurements: 5

The result is to be taken from table 4 as mean value of 5 single values.

Table 4: Adhesive strength

Material	Adhesive strength [N/mm ²]	Area of failure
Epoxy Primer (824) Epoxy Two-Component Resin (815)	3,1	100 % cohesion failure in concrete

4.2 Water absorption at 23 °C in accordance with ASTM D 570-98

The water absorption has been determined using free specimens retaining the following test conditions:

Dimensions of specimens: 60 mm x 60 mm x 1 mm³
Conditioning: 24 h at 50 °C
Test medium: Demineralised water
Test temperature: 23 °C
Test procedure: Long-time immersion
Time period of immersion: 15 days
Re-drying: 24 h at 50 °C
Evaluation: Water absorption after 7 d
Mass difference after re-drying in % by mass
Diagram water absorption as a function of time
(square root function)

The result is to be taken from table 5 as mean value of 3 specimens. The diagram of the water absorption as a function of time (square root function) is given in figure 1.



Table 5: Water absorption

Material	Water absorption after 15 d immersion time [% by mass]	Mass difference after re-drying [% by mass]
Epoxy Two-Component Resin (815)	3,1	-0,42

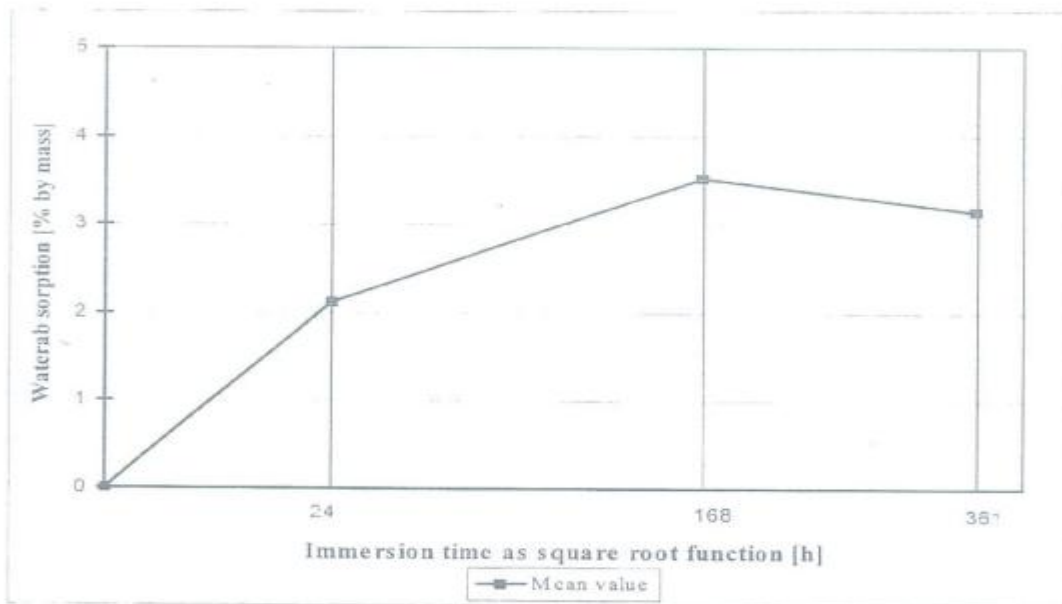


Figure 1: Water absorption as function of the immersion time (square root function)

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dated 2007-11-01



Polymer Institut

5 SUMMARY

On behalf of the Polat s. A., Thessaloniki/Greece, plastic material tests of the material

Epoxy Two-Component Resin (815)

have been carried out at the Polymer Institut.

The results are to be taken from the preceding clause 4.

Flörsheim-Wicker, 2007-11-01

The head on the testing laboratory


J. Magner



The person in charge


Dipl. Ing. (FH) N. Treichel