



TECHNICAL DATA SHEET

9.2 SOLVENT BASED

► Epoxy self-leveling 100% solids

Pigmented epoxy resin

1453 / Version 4 / 30-08-2023



DESCRIPTION

High-performance pigmented epoxy coating, offering maximum resistance against abrasion and wear. Self-levelling mortar mixed with special aggregates.

PROPERTIES

- Excellent adhesion to cement and concrete.
- Extremely resistant to solvents, acids and dilute bases, petrol, diesel fuel, brake fluid, lubricating oils and detergents.
- Abrasion resistance
- Low odour, contains no solvents (100% solids).
- Dust-free effect

USES

100% solids epoxy paint (no solvents) specially developed to be applied where high physical and chemical resistance is required on both vertical and horizontal surfaces. Appropriate for making self-levelling mortars. For use in car parks, industrial warehouses, workshops and in general, in all interiors in which specific zones need to be decorated, protected or marked out. Its use is also highly recommended for painting all kinds of metal structures used for building or making industrial machinery. This paint is for indoor use, as outdoors it is subject to chalking and colour fading.

TECHNICAL DATA

Appearance	Glossy.
Colour	Green, grey and red and colours available in RAL catalogue.
Density at 20°C (Kg/L)	1,45 ± 0.05
Content in solids % volume	100
Fire Resistance classification (EN13501-1)	Bfl s1
Resistance to Taber abrasion (UNE-EN ISO 5470-1:1999)	Loss of weight < 3000 mg H22/1000 cycles/load 1000 g.
Capillary absorption (EN 13057) Kg/m²min^{0.5}	W < 0,1
Thermal shock resistance (UNE EN 13687:2002) (N/mm²)	> 1,5
Shock resistance (UNE-EN ISO 6272-1:2012)	Class III
Determination of adhesion by direct traction, UNE-EN 1542:1999 (N/mm²)	> 1,5
Resistance to chemical attack (UNE-EN 13529:2005)	Decrease in hardness < 50 %
Mixing ratio	Paint: 12 Kg Hardener: 4 Kg Aggregate: 8 Kg
Useful life of mixture	45 min
% maximum dilution	0 - 5
Thinner	D-100
Yield	As self-levelling mortar: 1 kg/m ² /mm As paint: 4 m ² /kg
Touch dry	4 h
Second coat	minimum 16 h - maximum 24 h
Vehicle transit	48 h
Maximum hardness (days)	8
Volatile Organic Compounds (COV).	Maximum product content 80,80 g/L



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HOW TO APPLY

- The paint must be properly mixed up with a low-speed (300-400 rpm) mixer. Then add the hardener and continue mixing for three minutes.
- AS PAINT: Use with a short-haired roller from which all the fluff has previously been removed by winding masking tape around this and pulling it off. Repeat this operation twice.
- AS SELF-LEVELLING MORTAR: To obtain self-levelling mortar mix the paint with the aggregate (0.1-0.5 mm) to a proportion of one part by weight of paint and 0.5 parts of aggregate. Continue to mix for a further three minutes. Application is by spreading the mortar with a metal-toothed float or rake. Then apply a nylon bristle roller to allow the air out and even the surface.

SURFACE AND AMBIENT CONDITIONS

AMBIENT TEMPERATURE:

Always apply above 10°C and below 30°C.

RELATIVE HUMIDITY:

Never apply with relative humidity exceeding 85%.

SURFACE HUMIDITY:

Never apply with humidity exceeding 4%.

SURFACE PREPARATION

UNPAINTED SURFACES:

Iron and Steel:

- Remove any rolling scale that might be left.
- Remove any rust or rusted material (by sandblasting or scraping and mechanical or manual brushing), until a rust-free surface remains.

Decompacted:

- The paving must be in the very best condition as regards optimum preparation, i.e. clean, dry and even. Wait to complete setting (1 month).
- Wait until completely set (min. 30 days).
- Floors must be clean, free of fats and oils, dry, level and slightly rough. These should be prepared by mechanical means, shot-blasting or milling.
- To seal porous concrete it is advisable to use a suitable sealant according to the table of possible application systems.

PRE-PAINTED SURFACES IN POOR CONDITION:

Pre-painted surface in poor condition:

- If the surface is in poor condition or flaking, poorly adhered residues must be removed using chemical or mechanical stripping
- See compatibility with the previous paint.
- Clear oil or grease residue.

POSSIBLE APPLICATION SYSTEMS

Use a roller or spray gun for normal application of 100% solids self-levelling epoxy. Prior to the top coat and depending on the wall apply primer suitable for the yield specified in each case.

SEALANTS:

- Epoxy Colourless sealant 100% solids: Fixer, reinforcement of degraded surfaces suitable for smoothing high absorption surfaces or when screeding with self-levelling epoxy mortar is required. Yield: 0.25 - 0.35 kg/m² Coats: 1
- Epoxy Colourless sealant 40 % solids: Fixer, reinforcement of degraded surfaces with high penetration, suitable for application to floors or epoxy, polyurethane, chlorinated rubber paints, etc. Yield: 0.1 - 0.2 kg/m². Coats: 1

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SAFETY

Consult the current safety data sheet for safe handling (Section 8.2). Unsuitable for children. Keep out of the reach of children. Do not place painted surfaces into the mouth.

REMOVAL

Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling, in line with the local and national legislation in force. Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling. Do not pour down drains or into the environment. Dispose of the product at an authorised waste disposal site or through an authorised waste management company. Waste must be handled, stored and disposed of pursuant to current local- national legislation.

STORAGE

See storage conditions indicated in section 7.2 of the current safety data sheet. Store the containers away from high temperatures, direct exposure to the sun and frost. Maximum recommended storage time: 24 months from manufacture in fully sealed original container, indoors and at temperatures between 5° and 35° C.

LEGAL TEXT NOTE

This information and, in particular, the recommendations regarding the application and final use of the product, are given in good faith, based on the current knowledge and experience of Isaval Paints of the products when they are properly stored, handled and applied, in normal situations, within its useful life, according to the recommendations of Pinturas Isaval. In practice, the possible differences in the materials, supports and actual conditions at the place of application are such that it cannot be inferred from the information in this document, no any other written recommendation, neither any advice offered, will insure the guarantee in terms of marketing or suitability for particular purposes, neither any obligation outside of any legal relationship that may exist. The user of the products must carry out the tests to verify their suitability according to the use they want to give. Pinturas Isaval reserves the right to change the specifications of its products. The property rights of third parties must be respected. All orders are accepted according to the terms of our current General Conditions of Sale and Supply. Users should know and use the latest and updated version of the local Product Data Sheets, a copy of which will be sent to whoever requests them, or can also be obtained on the page "www.isaval.es". Data on this Sheet are based on laboratory tests. The measures taken "on site" may vary due to circumstances beyond our control.