

**Product type:** Mineral mortar based on hydraulic binders of self-levelling screed type, for the fine levelling of floors, having high adherence and compressive strength and top self-levelling characteristics – according to SR.EN. 13813/2003

**Short description of product:** AUTOLIV CLASIC is a homogeneous mixture of selected aggregates, Portland cement 42.5 and specific additives. AUTOLIV CLASIC is a monocomponent product, of floor mortar type, being a fine and homogeneous grey powder which forms a homogeneous and fluid paste when mixed with water.

**Areas of application:** AUTOLIV CLASIC is used for the fine levelling of floors with a view to creating a base layer with technical characteristics appropriate for final floor coverings such as: PVC, carpet, laminated or veneered floor coverings, multi-layer parquet, parquet, epoxy coatings, polyurethane coatings etc.

Technical data:	Physical form	powder
	Colour	grey
	Flammability	no
	Toxicity	no
	Density when fresh	approx. 1,960 kg/m <sup>3</sup> .
	Apparent density	Approx. 1,800 kg/m <sup>3</sup>
	Average consumption	approx. 1.7 kg / mm/m <sup>2</sup>
	Mixture water	5.5 - 6.5 l / 25 kg
	Preparation	Only with water
	Compressive strength after 28 days	approx. 30.0 N/mm <sup>2</sup> (C30)
	Bending strength	approx. 10.0 N/mm <sup>2</sup> (F10)
	Adherence to base layer per 28 days	approx. 2.0 N/mm <sup>2</sup> (B2)
	Temperature range for usage	+ 5°C – + 35°C
	Waiting period until the floor can be used	24 hours
	Waiting period up to the application of ceramic plates	24 hours
	Waiting period up to the application of parquet flooring	72 hours
	Waiting period up to the application of carpet, PVC, rubber flooring	48 hours

**Instructions for use:** Application of product is carried out only by trained and skilled workers in mortar applications, in the following stages:

**1. Checking the base surface:**

Checking the base layer is an important stage in the process of applying the product.

The surfaces upon which AUTOLIV CLASIC is applied should have the following features:

- a. They should be made out of concrete, coating or screed mortars (minimum M50) at least 28 days old.
- b. They should be flat and smooth - uneven elements do not exceed 5 mm/m.
- c. They should be clean, dust and salt free, they do not contain any non-adhesive substances (grease, bitumen, dust, gypsum, dye, old wall painting etc.) or with a neutral or alkaline pH.
- d. They should be free of cracks. Capillary cracks are allowed; they occur due to the cement hydration.
- e. They should be resistant, compact and free of any brittle parts, such as, for example:
  - When you hit the base layer with the hammer, there are no traces left, it does not sound hollow, no detachment occurs and the layer does not crush into small pieces;
  - When the layer is relatively slightly scratched with a nail or a chisel, there are no deep scratches nor dust traces left.
- f. They should be dry - the residual humidity, measured at about 2-3 cm inside the base layer on which the product is applied, should not exceed 2%.

If the base layer for which the product is used does not comply with the 6 minimum requirements mentioned above, it is considered to be unfit for using this product.

## 2. Preparing the base layer:

After checking the layer on which AUTOLIV CLASIC is to be applied, the person responsible with the application rigorously vacuums the surface of this layer and applies the appropriate primer with a brush or a painting roller.

For absorbent surfaces (*see data sheet PRIMER L 2022*):

- a. ... with absorption between 2% and 5% (for example: concrete, ... initial layer of auto-levelling screed, mashed off levelling screed, etc), priming is done with undiluted Primer L 2022 or diluted at a maximum ratio of 1:1 with clean and cold water, approx. 120 minutes before applying the AUTOLIV CLASIC product.
- b. ... with absorption between 5% and 8% (for example: brand levelling screed approx. M100 old or new), priming is done in two stages:
  - Primer L 2022 is abundantly applied, diluted with cold and clean water at a 1:4 ratio;
  - After at least 120 minutes, undiluted Primer L 2022 or diluted at a maximum ratio of 1:1 with cold and clean water is applied again 120 minutes before applying the AUTOLIV CLASIC product.

From priming up to the application of the self-levelling screed, attention should be paid so that the primed surface should be kept clean and dust free.

For nonabsorbent surfaces (for example: mosaic, floor tiles, granite, ceramic plates – *see data sheet PRIMER L 7012*): for priming, Primer L 7012 is used; it is applied undiluted with a brush or a mason's brush across the entire surface which shall be covered with AUTOLIV CLASIC. Attention shall be paid so that the entire surface should be very well covered with Primer L 7012. It is left to thoroughly dry for at least 24 hours. After drying, the whole surface is once again checked to make sure that it is evenly and totally covered with primer and is dried; then, the self-leveling screed AUTOLIV CLASIC is applied. From priming up to the application of the self-levelling screed, attention should be paid so that the primed surface should be kept clean and dust free.

## 3. Preparing the product:

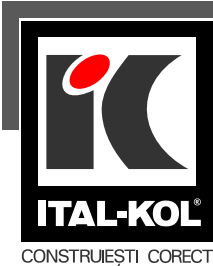
the paste is obtained by mixing a 25 kg sack of AUTOLIV CLASIC with 5.5 l – 6.5 l (220 – 260 ml/kg) of clean and cold water, only in clean and appropriate containers, by pouring the product in water (and not the other way around!). The mixture is created only with a specialized rotating mechanical device (electrical or pneumatic), with low revolutions (maximum: 500 rev/min) and high power (minimum: 1,200 W), fitted with a screw specially designed for mortars. Mixing is carried out for about 2 minutes in order to obtain a perfectly homogeneous and agglomeration free paste. After mixing, the paste is left to rest for about 10 minutes and then it is mixed again for about 1-2 minutes, and then it is poured IMMEDIATELY. It is recommended to pour the mixture continuously.

In this sense, the paste is prepared in more than one container, at intervals of approx. 3 – 4 minutes between these mixing operations; the number of containers depends on the surface covered. This happens because it is recommended to pour the mixture quasicontinuously, with an interval between the pouring operations of about 3 - 4 minutes. The non-observance of the mixing stages implicitly causes the product to lose its properties and, thus, failures in using it may occur.

## 4. Product application:

None of the operations described below shall be performed under direct sunlight, under powerful air currents (wind) or at air or base layer temperatures lower than 5°C or exceeding 35°C.

After the paste is ready, it is poured onto the checked, prepared base layer primed with the correct primer. The pouring procedure is carried out immediately after preparation; otherwise (after approx. 3 - 4 minute) the paste may segregate in the mixing container. Once segregated in the container, the paste prepared according to point 3 cannot be used anymore. The minimum thickness of an applied layer is of 2 mm, while the maximum thickness is of 4-5 mm. For higher values, successive layers will be poured at 48 hour intervals, each layer being primed. A thickness of 10 mm is allowed, on certain areas of maximum 4 cm<sup>2</sup>, provided that the distance between such areas is of at least 1 mm. After applying the product on the base layer, the former is immediately levelled with a levelling board (mason's float, hawk) made from stainless steel at least 50 cm long. After using the levelling board (mason's



S.C. ITAL-KOL S.R.L.  
RO, 307395 Comuna Șag, Str. XI nr. 64, Județ Timiș, România,  
Tel.: +40 256 395 200; +40 256 395 300, Fax: +40 256 395 100,  
C.I.F.: RO 6470443, Nr. Înreg.Reg.Com.: J35 / 3176 / 93

CONSTRUIESTE  
CORECT

Data Sheet

Ed.1 /Rev.3 | Cod F.14.00.05  
Revised and amended on:  
06.06.2011

**AUTOLIV CLASIC**

Code: 1. 5. 01

EC

Conformity attestation system 3

float, hawk), air is eliminated from the applied paste with a rubber or plastic needle roller. The levelling done with the levelling board and the procedure of eliminating the air are carried out by the person responsible within 4-5

minutes, using supports with spacers (needles) of at least 20 mm, if it is necessary to walk over the newly applied paste. After application, the newly applied layer should not be allowed to dry too rapidly. A too rapid drying can lead to cracks. Generally, a too rapid drying is caused by exposure to sun, high air temperatures, wind, powerful air currents or drought; therefore, when such conditions may occur after applying a layer, it is recommended to protect the respective layer against evaporation by spraying corresponding anti-evaporation substances, covering the layer with a plastic foil, or by very lightly spraying water immediately after the layer can be walked on.

#### 5. Final recommendations:

- a. The product is mixed only with clean and cold water and only in clean and appropriate containers.
- b. Do not use AUTOLIV CLASIC in industrial areas or surfaces undergoing heavy duty traffic.
- c. When heated floors are used, switch off the heating 24 hours before applying the product and switch it on again only after the product has dried.
- d. For large surfaces, in the events specified by the designer, expansion joints are created (at min. 4 m and max. 7 m), taking into consideration (if applicable) the base layer joints.
- e. The product is not applied under direct sunlight, wind, rain or air and base layer temperatures lower than + 5°C or exceeding + 35°C or when such phenomena may occur in the next 24 hours

**Packaging:** The product is packaged in sacks weighing 25 kg; 60 sacks per pallet covered in foil.

**Storage:** The product is stored for maximum 12 months in a dry place, in its original undamaged package, placed on the pallet.

**Marking:** Each sack is marked by being stamped, on the bottom, with the following information: date of production – five groups of figures symbolizing:  
the day, the month, the year ending, production line number, production batch number.

**Warranty:** The product has a 12 month warranty beginning on the date of production marked on the package; this warranty applies only for the storage conditions mentioned above.

- WARNING!**
- The prepared product is alkaline. During handling and transport, goggles, gloves and anti-dust masks should be worn. In case the product gets accidentally into your eyes, wash immediately with lots of clean water and then quickly contact a doctor!
  - Products with damaged packaging should not be used.
  - The unused items should not be discarded into the sewerage system

**Note 1:** The present data sheet accompanies each invoice or waybill which refers to the product presented in the sheet.

**Note 2:** It is forbidden to reproduce parts or fragments from the present data sheet.

**Note 3:** The present data sheet has been drawn up to properly inform the user about the presented product. The use of this sheet for other purpose than informing you about the product and preparing the technological specifications regarding application is strictly forbidden without the written consent of ITAL-KOL.

**Note 4:** For other additional information, which you consider you should receive or you find useful, we recommend that you contact the producer in writing, before using the product. Any producer liability regarding failures in applying the product resulted from misinterpreting the text of the present data sheet or from verbal consultancy is excluded.

**Note 5:** The data presented in the product data sheet and, mainly, the instructions regarding the manner and area of application of the product are based on the skills and practical experience of the person applying the product. Due to a large variety of materials, tools or working conditions which we cannot totally control or foresee or which, even if they are clearly mentioned in the product data sheet, are not correctly assessed by the person applying the product, in each case we recommend, before use, to carry out individual tests of applying the product, so that you can be sure that the product the present data sheet is describing is suitable for your respective field of application.

Any producer liability regarding failures in applying the product resulted from the causes mentioned above in this sheet is excluded, except for the event when the damages resulted only from the poor quality of the product that the present data sheet refers to.

**Note 6:** Depending on the evolution of the technical regulations applicable, the producer preserves the right to modify the present data sheet. For the purpose of confirming the data in the sheet, we recommend you to visit the web page: web [www.italkol.ro](http://www.italkol.ro) prior to using the product