

# JOLUKA

## Joluka Self Levelling Screed Technical Data Sheet

### Rapid Setting Self Levelling Floor Overlay And Underlay Screed

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#### Product Description

Joluka Self Levelling Screed is used for levelling and removing differences in thickness from 1 to 10 mm on new or existing substrates, preparing them to receive any kind of flooring where an excellent resistance to loads and traffic is needed. Joluka Self Levelling Screed is particularly suitable for areas subject to wheel chairs. Joluka Self Levelling Screed is for interior use only. Not for exterior use.

Some application examples

- Levelling concrete slabs or screeds based on cement, anhydrite and magnesite, including those with underfloor heating systems incorporated.
- Levelling existing cement, terrazzo, ceramic and natural stone floors.

Classification According To EN 13813

The smoothing compounds prepared with Joluka Self Levelling Screed in compliance with the prescriptions present in this technical data sheet are classified as CT-C25-F7-A2fl according to European Norm 13813.

#### Technical Characteristics

Joluka Self Levelling Screed is a grey powder consisting of special cements with fast setting and hydration together with graded silica sand, resins and special admixtures, according to a formula developed in the SCC Research Laboratories.

Mixed with water, Joluka Self Levelling Screed becomes a highly fluid and easily workable mortar, perfectly self-levelling with high adhesion to the substrate that dries ultra-quickly.

Joluka Self Levelling Screed can be applied with an automatic pressure pump for distances over 100 m. Joluka Self Levelling Screed can be spread in thicknesses up to 10 mm per coat without shrinkage, cracking or crazing, and develops very high compressive and flexural strength, as well as resistance to indentation and abrasion.

Joluka Self Levelling Screed is ready to receive flooring after approximately 12 hours, regardless of the thickness.

It is recommended to wait 24 hours when installing wooden flooring.

Joluka Self Levelling Screed has very low emissions of volatile organic compounds (EMICODE EC1 R Plus) and is harmless to the health of the installer and the end-user in the areas where applied.

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## Recommendations

- Do not add water to a mix which has already started to set.
- Do not add lime, cement or gypsum to the mix.
- Do not use Joluka Self Levelling Screed for exterior applications.
- Do not use Joluka Self Levelling Screed on substrates subject to continuous rising damp.
- Do not apply Joluka Self Levelling Screed at temperatures below +5°C.
- Do not apply Joluka Self Levelling Screed in thicknesses less than 3 mm when wooden flooring needs to be installed.

## Technical Data (typical values)

### Product Identity

Consistency:	fine powder
Colour:	grey
Bulk density (kg/m <sup>3</sup> ):	1300
Dry solids content (%):	100
EMICODE:	EC1 R Plus - very low emission

## EN 13813 CT-C25-F7-A2fl

## Application Data (at +23°C - 50% R.H.)

Mixing ratio:	24-25 parts of water per 100 parts by weight of Joluka Self Levelling Screed
Thickness per coat:	from 1 to 10 mm (minimum of 3 mm before the installation of wooden floors)
Self-levelling:	yes
Density of mix (kg/m <sup>3</sup> ):	2000
pH of mix:	approx. 12
Application temperature range:	from +5°C to +35°C
Open time:	20-30 minutes
Setting time:	45-60 minutes
Set to light foot traffic:	3 hours
Time before laying flooring:	12 hours (24 hours for wooden floors)

## Final Performance Data

Compressive strength (N/mm <sup>2</sup> ):	after 1 day: 12.0 after 3 days: 17.0 after 7 days: 20.0 after 28 days: 26.0
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Flexural strength (N/mm <sup>2</sup> ):	after 1 day: 3.0 after 3 days: 4.0 after 7 days: 5.0 after 28 days: 7.0
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Resistance to abrasion Taber Abrasimer  
(Abrading wheel H22 - 500 g - 200 revolutions)  
expressed as weight loss (g):

after 7 days: 2.8  
after 28 days: 2.3

Brinell hardness (N/mm<sup>2</sup>):

after 1 day: 55  
after 3 days: 70  
after 7 days: 80  
after 28 days: 100

## Application Procedure

### Preparing the substrate

Substrates must be completely dry, sound, and free from dust, loose parts, paint, wax, oil, rust and traces of gypsum.

Dusty or very porous concrete surfaces must be treated with a coat of GripKey 1000 in order to even out the absorbency of the substrate.

### Preparing the mix

Pour a 20 kg bag of Joluka Self Levelling Screed into a bucket containing approximately 5.6 liters of clean water and mix with a low speed electric mixer to obtain a homogeneous lump-free mix. Larger quantities can be prepared in on-site cement mixers. After 2-3 minutes of slackening, re-stir the mix. The mix is then ready to be used.

It is recommended to add approximately 20-30% of 0/4 or 0/8 grain sand when Joluka Self Levelling Screed is used for thicknesses more than 10 mm (max. 20 mm). For further information consult SCC Technical Services Department.

The quantity of Joluka Self Levelling Screed mixed at any time must be used within 20-30 minutes (at +23°C).

### Spreading the mix

Apply Joluka Self Levelling Screed in a single coat from 1 to 10 mm with a large metal trowel or rake and keeping the trowel slightly inclined to obtain the desired thickness.

Joluka Self Levelling Screed can also be applied with an automatic pressure pump for renders. Due to its remarkable self-levelling properties Joluka Self Levelling Screed immediately loses small imperfections (trowel marks, etc.). When a second coat of Joluka Self Levelling Screed is required, it is recommended to apply it as soon as the first one is set to light foot traffic (approximately 3 hours at +23°C). Joluka Self Levelling Screed is suitable to receive resilient, carpet, and ceramic floor coverings fixed after 12 hours at +23°C (the time can vary, depending on the room temperature and humidity).

When installing wood

flooring, wait 24 hours. Check the humidity content with a carbide hygrometer or an electric moisture meter, keeping in mind that the latter only gives indicative values.

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## **Cleaning**

While still wet, Joluka Self Levelling Screed can be removed from tools with water.

## **Consumption**

1.6 kg/m<sup>2</sup> per mm of thickness.

## **Packaging**

Joluka Self Levelling Screed is available in 20kg bags.

## **Storage**

Joluka Self Levelling Screed stored in a dry place is stable for at least 12 months. However, with time it could undergo a slower setting time but the final characteristics do not alter. The product complies with the conditions of Annex XVII to Regulation (EC) N° 1907/2006 (REACH) - All. XVII, item 47.

## **Safety Instructions for Preparation And Application**

Joluka Self Levelling Screed is an irritant. It contains cement that when in contact with sweat or other body fluids, cause irritant alkaline reaction and allergic reactions to those predisposed. It can cause damage to eyes. In case of contact with eyes or skin wash immediately with plenty of water and seek medical attention. It is recommended to use protective gloves and goggles. For further and complete information about the safe use of our product please refer to the MSDS.

## **Warning**

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.