

## Ha-Be Granu-Pearls

Item No 3850

**Granulates for layer separation of finished concrete products**

### FIELDS OF APPLICATION

Ha-Be Granu-Pearls are specially designed granulates for a safe layer separation of finished concrete products, e.g. paving stones and slabs, after stacking.

Besides the layer securement the high-quality granulates provide the following benefits:

- **Transport safety**  
The specific quality of Ha-Be Granu-Pearls secures the concrete layers from moving or slipping.
- **Scratch protection of the surface**  
Ha-Be Granu-Pearls separate one layer from the next. Scratches and abrasion should not occur as the layers have no physical contact.
- **Decreasing of efflorescence**  
The applied granulate provides a distance between they layers allowing the air to circulate in between. Moisture is able to escape and waterlogging is minimized. As a result efflorescence or stain of concrete products is reduced.
- **Economic efficiency**  
Granulates are easy to use and can be applied both manually and fully automatically. Compared to other possibilities of layer separation, e.g. grids or nonwoven, granulates may be a more economical alternative.

### DOSAGE

Depending on the surface structure the necessary amount might vary between 10 – 30 g/m<sup>2</sup>. The application quantity has to be determined for each individual application. Pre-tests are required.

### WORKING PRINCIPLE

Ha-Be Granu-Pearls separate one layer from the next and provide a distance between the stacked layers. This allows air circulation and reduces waterlogging and efflorescence.

### TECHNICAL DATA

|                      |  |
|----------------------|--|
| Material             | low-density polyethylene (LDPE)  |
| Colour               | dark grey/ olive green   |
| Shape                | granulate, lenticular, round, oval   |
| Diameter             | approx. 0.5 cm   |
| Height               | approx. 0.2 cm   |
| Bulk density         | approx. 0.57 kg/l  |
| Density              | approx. 0.9 g/cm <sup>3</sup>  |
| Ignition temperature | > 320 °C   |
| Melting range        | 100 – 140 °C   |
| Storage conditions   | stored in unopened, original sealed packaging. Protect from humidity and insolation. |

## PROCESSING INDICATIONS

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Before application concrete products have to be completely cured. The surface must be firm, clean and free of loose particles. Impregnations, coatings etc. need to be dried completely.

Ha-Be Granu-Pearls are evenly distributed on each layer of concrete products before stacking. They can be applied both manually and fully automatically.

After placing the concrete products on site Ha-Be Granu-Pearls need to be removed and properly disposed according to official regulations.

See safety data sheet for further information.

## PACKAGING

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Disposable big bags (size: 1.20 x 1.20 x 1.80 m).  
Weight approx. 1200 kg.  
Invoicing according to weight.

## REMARKS

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This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indications are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

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**SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE GRANULATE!**