

PRODUCT DATA SHEET

Sikacrete[®]-116 Shot

READY TO USE DRY SHOTCRETE MIX

DESCRIPTION

Cement based, accelerated one component ready to use dry mix.

USES

As applied by dry shotcrete machine type (e.g. rotor) suitable for the following conditions.

- Dewatering work in underground constructions.
- Preliminary support in difficult condition (support with water seepage, soft ground).
- Substitute of dry mix produced by batching in the case of a small volume of shotcrete is required to be applied.

CHARACTERISTICS / ADVANTAGES

- Early bonding and compressive strength development.
- Accelerated with Alkali Free Powder accelerator.
- Free from any moisture in the mix as factory made.
- No strength reduction at long terms due to the use of Alkali Free powder accelerator.
- Do not require additional mixing prior use.
- Additional liquid accelerator can be added during the spraying when very high early strength is required.

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Powder / Grey
Shelf life	6 months from date of production if stored in undamaged and unopened.
Storage conditions	Store at protected area from direct sunshine in dry condition.
Bulk Density	1.50 – 1.65 kg/L
Maximum Grain Size	~ 10 mm.

TECHNICAL INFORMATION

Compressive Strength	MPa	
	8 hrs.	~ 4
1 day	~ 10-15	
28 days	~ 28-35	

Note : depend on the actual water added by nozzleman while spraying.

APPLICATION INFORMATION

Consumption

The rate of coverage depends on the surface texture of the substrate, the area to be sprayed (overhead or vertical) and the thickness of the applied layer. As a general rule, allow 30 to 35 kg/m² per 10 mm applied thickness.

APPLICATION INSTRUCTIONS

EQUIPMENT

Rotor shotcrete machine with either 50 or 60 mm conveying rubber hoses. Ideal output max 5 m³/h

- Accelerator Liquid dosing unit (in case of additional accelerator addition)
- Water booster pump (min 12 lt/min – min 5 bars)
- Compressor (min 7 bars and 12 m³/min air supply for maximal 40 meter conveying distance while considering max 5 m³/h)

SUBSTRATE QUALITY / PRE-TREATMENT

In the case of no presence of seeping water on the surface, substrate shall be prewetted.

In the case of water seeping on the surface, additional cleaning shall be limited to air spraying just prior spraying Sikacrete®-116 Shot in order to remove loosed and weak parts of the substrate.

APPLICATION

In the case that additional accelerator is required, only liquid Alkali Free accelerator (e.g. Sigunit® L 53 MY or Sigunit® L 53 TH) can be added thanks to a liquid dosing unit.

Dry Process

Sigunit® L53 MY or Sigunit® L 53 TH is supplied from the liquid dosing unit to the mixing tube assembly by means of water under pressure (2-3 bars more than the dry mix conveying pressure).

The water and accelerator mixture is added through the mixing tube assembly being located 2,5 m behind the nozzle or at the nozzle directly.

CLEANING OF EQUIPMENT

Uncured mortar should be removed from tools with water. To clean the spraying equipment, please refer to equipment's manufacturer recommendations. Once cured, the mortar can only be removed mechanically.

FURTHER INFORMATION

- In case of additional accelerator is used only Alkali Free accelerator can be used
- Min thickness per layer 30 mm
- Max thickness per layer 120 mm without additional accelerator addition
- Max thickness per layer 170 mm with additional accelerator addition 5%

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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