

ROMIX

SILICONE INDUSTRIAL FLOOR HARDENER

ADVANTAGES

- Minimises the occurrence of micro-cracks (spider webs)
- Special combination of mineral and synthetic ingredients plus chemical modifiers ensure excellent workability and ease of application and processing
- Stability and repeatability from batch to batch
- Once set and properly cured, forms a hard "shell" with excellent adhesion to the substrate
- High density of silica fillers makes the floor extremely resistant to heavy mechanical use
- High watertightness of the completed floor
- Easy to apply both manually and mechanically
- High resistance to temperature differences of -65 to +95°C
- Available in grey, graphite, green, red, brown, light grey and blue (other colours available on request)

USE

- Romix - silicone-cement hardener for application to freshly poured concrete, for the production of industrial floors of versatile use in industrial construction.
- It is a product specially developed for the use of professional work teams specialised in "INDUSTRIAL FLOORINGS".
- The primary task of Romix is to ensure that the concrete surface achieves technical parameters that meet the requirements of construction standards and the individual needs of the investor
- The use of Romix hardener is justified wherever there are mechanical loads on the industrial floor and high sanitary requirements
- Typical examples of the use of the hardener are facilities for warehousing and logistics, retail, wide-area production, car parks, garages, workshops, etc.

PROPERTIES. PRODUCT COMPATIBLE WITH PN-EN 13813

- Abrasion resistance class AR0.5 - if all technological requirements and floor execution conditions are met
- Compressive strength after 28 days 80 MPa
- Flexural strength class F7
- The floor has an increased resistance to water and oil penetration
- After bonding with the concrete subfloor, it forms a low-wear layer with a uniform structure
- Romix increases the abrasion resistance of concrete by over 400% according to tests
- Impact abrasion resistance measured in the RS1 apparatus - Romix cured pavement has withstood more than 5,000 cycles without damage, thus guaranteeing maximum resistance of the floor to hard wheel loads

INSTRUCTIONS OF USE

First of all, when preparing for the application of Romix, we need to secure the correct concrete mix. The requirements for the concrete are as follows:

- Minimum concrete C20/25 flooring
- Do not add ash other than the original ash in the ash cements to the concrete. The permissible amount of such ashes if the cement does not contain them is a maximum of 30 kg per m³ and only from verified sources
- Do not add additives with an aerating effect.
- We recommend the use of CEM IIIA group cements in hot weather under a roof, and for larger surfaces (less shrinkage and longer processing time), CEM II or, if making floors in cold conditions, CEM I
- For light coloured floors we recommend a slag based cement
- If in doubt, contact the manufacturer's representative

The concrete base, once evenly distributed, must be vibrated and allowed to dry. The first work begins as soon as a slight shoe mark (about 5 mm) is observed on the concrete. The first step is to rub the raw concrete with a trowel to break up the cement laitance, then apply Romix at a rate of 2 to 3.5 kg/m² and rub in the hardener with the trowel, making sure that each pass of the machine is perpendicular to the previous one. Afterwards, sprinkle the concrete again with 1 to 3 kg/m² of Romix and trowel until the surface is uniformly smooth. The amount of hardener applied in the following steps depends on the needs, the contractor's capabilities, the external conditions and the application method. The manufacturer recommends an application rate of 3.5 to 5.5 kg/m², if a larger amount is required, contact the manufacturer for application conditions and concrete formulation.

It is also possible to apply the Romix hardener with high performance self-propelled seeders. It is then necessary to apply on freshly vibrated concrete. This type of application is fully compliant with application technology and building practices. It guarantees the most uniform and correct application. The temperature when applying the Romix technology should be between +5 and 25°C. If possible, the surface to be laid should be protected from rain, draughts and sunshine.

OPERATION

The maximum load on the cured floor should start after 28 days. The cured floor should also be protected against excessive drying, for this purpose it is necessary to treat the floor by traditional or chemical method with P100, P200, PH100, PHW100. In order to prolong the life of the floor it is important to remember about the right way of cleaning. Use a chemical cleaner with a PH value close to 8, and vacuum the floor to remove any hard dirt causing scratches. Cleaning runs are recommended.

CLEANING AND MAINTENANCE OF A CONCRETE FLOOR

- **Si-Clean** - preparation for daily cleaning and care
- **Si-Wax** - self-gloss polymer paste
- **Si-Active Concrete Clean** - alkaline cleaner for basic cleaning and removal of heavy soiling

STORAGE, TRANSPORT AND SIZE OF PACKAGES

- The storage period for Romix, in a dry place, is 6 months from the date of production
- Romix is packed in 25 kg bags, 1200 kg/pallet.
- Transport in original packaging and protect from moisture

PRECAUTIONS

- Romix contains cement which, when dry, does not pose a risk to the skin, but when mixed with water the cement is alkaline and has an irritating effect on the skin
- When handling this material, avoid inhaling dust
- It is recommended to wear protective goggles and gloves

The material complies with EN 13813

Note: *The above information has been compiled to the best of our technical knowledge, but is not legally binding.*

Hygienic Approval No. 410/322/418/2020