

Armix Cure SB

(Formerly known as MYK CURE SB)

Transparent surface hardener, dust proofer, sealing and curing compound for concrete



TECHNICAL DATA SHEET

Product Description

Armix Cure SB is a one part, clear liquid based on sodium silicate to cure, harden and seal fresh or hardened concrete.

Uses

- Horizontal old or new concrete surfaces, where a hard surface with light to moderate abrasion resistance is required e.g. warehouses, industrial plants, stores, shopping malls, parking structures, service stations, hangars etc.
- On concrete slabs where no specific curing efficiency or standards are required
- Suitable for interior or exterior applications

Features and Benefits

- Ready to use
- Easy to apply
- Improved chemical and abrasion resistance compared to untreated concrete
- Reduced dusting of concrete floors
- Reduced loss of water of new concrete while setting
- Improves clean ability
- Non-yellowing
- Good penetration
- Solvent free
- Colorless and odorless
- Environmentally friendly

Application Methodology

Step no 1: Substrate Preparation

Fresh concrete:

The concrete must be prepared by suitable power or manual floating/tamping techniques.

Hardened / old concrete:

The substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water or abrasive blast cleaning equipment.

All dust, dirt, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and / or vacuum

Substrate Quality:

Fresh concrete:

Surface must be free of bleed water and of sufficient strength to withstand finishing operations.

Hardened / old concrete:

Surfaces must be sound, open textured, clean, free from frost, laitance, surface water, oils, grease, coatings, all loosely adhering particles and another surface Contaminants.

If in doubt apply a test area first.

For best results, concrete floors must be treated with Armix Cure SB at least 7 - 14 days after their placement or after the cement has had sufficient time to hydrate.

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Application Conditions / Limitations

Substrate Temperature: +5°C min, +35°C max.

Ambient Temperature: +5°C min, +35°C max.

Substrate Moisture Content:

Can be applied on green concrete, without any bleed water

Relative Air Humidity: 100% r.h. max.

Dew Point: Beware of condensation!

The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.

Spep no 2: Product Application details:

Mixing: Product is supplied ready to use

Application Method / Tools:

Fresh Concrete:

Apply in a continuous film using a high-volume low-pressure spray unit as soon as the surface is firm enough to walk on and in sufficient quantity to keep the surface damp for at least 30 minutes.

After 30 to 45 minutes, the material begins to gel and becomes slippery. Wet the material lightly with a water spray to reduce slipperiness and rework into the surface for 10 - 20 minutes with a soft bristle broom or floor-scrubbing machine. After about 20 minutes, the material will return to a gel. Rinse the floor and remove any excess material using a squeegee, wet vacuum or mop.

Hardened Concrete:

Apply in a continuous film using a high-volume low-pressure spray unit.

To ensure maximum penetration, scrub material into the surface with a soft bristle broom or floor-scrubbing machine (minimum 30minutes), until material begins to gel and become slippery. Wet the material lightly with a water spray and rework it into the surface for another 10 - 20 minutes. After this process, rinse the floor and remove any excess material using a squeegee, wet vacuum or mop. On porous, rough-textured or broom-finished surfaces, a second coat may be required.

Cleaning of Tools:

Clean all tools and application equipment with water immediately after use.

Hardened / cured material can only be removed mechanically

.Waiting Time / Overcoating:

Where 2 coats are required to ensure maximum densification the second coat can be installed 2 - 4 hours following the first. Allow previous coats to become tack free before applying additional coats

Temperature	Time
+5°C	~ 4 Hours
+10°C	~ 3.5 Hours
+20°C	~ 3 Hours
+25°C	~ 2 Hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity

Notes on Application / Limitations:

In hot weather (above +25°C) store Armix Cure SB in a cool place prior to use.

In low temperatures (below +10°C) the product may thicken and be difficult to spray.

Do not use sprayers, which have been used to spray silicones or release agents. Do not mix differing formulations of MYK arment or other curing membranes. Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed. Armix Cure SB must be removed mechanically prior to the application of a coating system.

Armix Cure SB will increase abrasion resistance compared to untreated concrete of the same type.

Immediately wash over-spray from glass, aluminum or highly polished surfaces with water to avoid etching of surfaces.

Do not use on substrates treated previously with curing agents, membrane forming sealers or asphalt until these layers have been removed completely.

Only use as curing compound for unregulated specification application. Gelification time may be increased at low temperatures (below +10°C), high humidity (from 80% to 100%) or wind free conditions

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In hot weather conditions (above +25°C), gelification may occur before material has penetrated sufficiently. In such case, apply additional Armix Cure SB to keep the surface wet for the recommended 30 minutes.

When applying, leave no dry spots in order to have homogenous performance. Touch up where necessary.

For both old and new concrete, thoroughly wash and remove off residue or excess material. This is important as it is difficult to do so if allowed to dry and may result in unsightly white stains. This residue solution is nontoxic and can be emptied into a sanitary sewer.

Performance enhancement of the substrates will vary greatly depending on the age, cement content, humidity content, porosity and penetration of the product into the substrate.

Armix Cure SB will not compensate for poor substrates with low cement content. It is not intended for substrates which are lightweight or extremely porous or have worn (aggregate exposed) surfaces.

Armix Cure SB will not hide serious staining or excessive wear.

Curing Details:

Applied Product ready for use

Substrate temperature	+10°C	+20°C	+30°C
Fully serviceable	~ 6hours	~ 5hours	~ 4hours

Note: Times are approximate and will be affected by changing ambient and substrate conditions

Cleaning / Maintenance:

Methods

To maintain the appearance of the floor after application, Armix Cure SB must have all spillages removed immediately and must be regularly cleaned using rotary brushes, mechanical scrubbers, scrubber dryers, high pressure washers, wash and vacuum techniques, etc., using suitable detergents and waxes.

Value Base:

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

Technical Data

Appearance	Clear liquid
Chemical Base:	Sodium silicate water dilution.
Density (at +20°C)	1.23 kg/l
Solid Content:	27%
Curing Efficiency: ASTM C 156 - 02b	
Loss of water g/100 cm ²	10.92
Loss of water compared to ASTM C309 (100%=5.5g/100 cm ²)	198.50%
Loss of water compared to untreated concrete (100%=18.7g/100 cm ²)	58.40%
Mechanical / Physical Properties	
Abrasion Resistance: (Taber Abraser, H-22 Wheel, 1000 g / 1000 cycles) (ASTM D-4060)	35% increase in abrasion resistance compared to C25 concrete
Chemical Resistance:	The product is not intended for chemical exposure.
System Information:	
System Structure:	Curing compound 1 - 2 coats Hardener / Sealer 1 - 2 coats

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Consumption

0.15 - 0.25 l/m²/coat (4 - 7m²/l/coat). This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.

Packaging

20 kg pails / 250 Kg HDPE Drums

Storage and Shelf Life

12 months from date of production if stored properly in cool dry place under shaded area, away from any extreme temperature or direct sunlight.

Health & 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.

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability 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 & purpose. MYK Arment 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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