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Surface Treatment

monneli.com

QATARI
PRODUCT



Monneli.com

Uses

MonniCrete S is used for the treatment of wooden and metal form work or molds prior to the casting of concrete to facilitate form stripping.

- Minimizing concrete surface blemishes and pinholes



MonniCrete S

Chemical mould and form-work release agent

Usage Instructions

Surface Preparation

All moulds, shutter surfaces must be cleaned from deposits of rust, concrete, oil or other materials. The product is ready to use without any dilution.

Application

MonniCrete S is supplied in pails or drums ready to use at site without a need to premix operation. It can be applied by brush, roller or spraying machine. Apply MonniCrete S on plywood or steel shutter before the first casting. After every use of form-work, the shutter should be recoated lightly with MonniCrete S.

Do not over apply MonniCrete S on the form-work. Excessive material should be allowed to drain before using the form-work.

Apply the product with a brush or preferably with a sprayer. For best results, it is advisable to apply MonniCrete S at least two hours before using the shutter.

Advantages

- Factory controlled single component easy to use.
- Stainless fair-faced concrete finish.
- Ensures easy release reducing damage to molds and form-work.
- Produces neat concrete surfaces by letting the air & water bubbles rise freely during vibration.
- Performs all wooden or plywood form surfaces, GRC as well as to synthetic or steel forms.
- Extend usable life of shuttering.

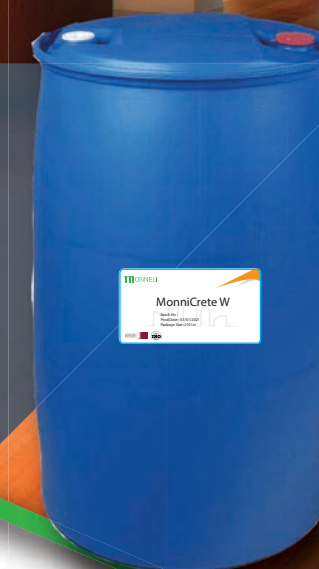
Technical Data

Pack Size	200L Drum
Appearance	Pale
Density	0.82 kg/L
Chloride content	Nil
Application Rate	7-30 m ² / L

Uses

MonniCrete W is formulated to provide a quick, clean and easy stripping of moulds and formwork prior to casting concrete to ensure high quality fair faced and stain-free concrete. It can be applied to

- Plywood
- Timber
- Steel



MonniCrete W

Water Based Mould and Shuttering Release Agent

Usage Instructions

Mould and Shuttering Preparation

All mould and shutter surfaces must be cleaned from deposits of rust, concrete, oil and other materials.

Application

MonniCrete W can be applied by brush, roller or mould oil sprayer. If mould oil sprayer is used, the nozzle is atomized to give a light and uniform coating.

Excessive application should be avoided. However, if MonniCrete W is overly applied, excess materials should be allowed to drain and be carefully removed from the bottom of the mould by a cloth or sponge. Pools of MonniCrete W should not be allowed to dry. Otherwise, surface retardation of the concrete will occur.

For proper results, it is advisable to apply MonniCrete W two hours at least before using the mould or shutter.

Technical Data

Pack Size	200L Drum
Appearance	Milky White
Density	0.97 kg/L
Chloride content	No
VOC	0.48 g/L

Advantages

- Water based, eco-friendly product
- Odorless and nonflammable
- Produces neat concrete surfaces by letting air and water bubbles rise freely during vibration
- Ensures easy release, reducing damages and improving efficiency of production
- Minimize surface stains and blemishes even with white cement.
- Suitable for use with virtually all types of formwork

Uses

- MonniCrete C is used after dilution for the treatment of wooden and metal form work or molds prior to the casting of concrete to facilitate form stripping.
- Minimizing concrete surface blemishes and pinholes.



MonniCrete C

Chemical mould and form-work release agent

Usage Instructions

Surface Preparation

All moulds, shutter surfaces must be cleaned from deposits of rust, concrete, oil or other materials. The product is ready to use without any dilution.

Application

MonniCrete C is supplied in 10 kg pails that need to be mixed and diluted with 200 liters of Diesel prior to use. The mix can then be applied by brush, roller or spraying machine.

Apply the diluted MonniCrete C on plywood or steel shutter before the first casting. After every use of formwork, the shutter should be recoated lightly with MonniCrete C dilute.

Do not over apply the diluted MonniCrete C on the formwork. Excessive material should be allowed to drain before using the form-work.

Apply the product with a brush or preferably with a sprayer. For best results, it is advisable to apply diluted MonniCrete C at least two hours before using the shutter.

Advantages

- Minimizes storage requirement of conventional release agent products.
- Stainless fairfaced concrete finish.
- Ensures easy release reducing damage to molds and form work.
- Produces neat concrete surfaces by letting the air & water bubbles rise freely during vibration.
- Performs all wooden or plywood form surfaces, GRC as well as to synthetic or steel forms.
- Extend usable life of shuttering.

Technical Data

Pack Size	200L Drum
Appearance	Yellowish viscous fluid
Density	0.9 kg/L
Chloride content	Nil
Application Rate	10kg/200 L Drum

Product Discription

A volatile blend of selected hydrocarbon solvents, formulated for diluting epoxy and polyurethane products. MONNELI SOLVENT 10 is also used for cleaning of tools and equipment.

Storage

Store in closed container in cool dry condition, stay away from sources of ignition. The product is flammable.

Self Life

12 months from production date

Health & Safety

Avoid contact with skin and eyes. Use gloves and goggles during application. Ensure adequate ventilation and avoid inhalation of vapours.

MONNELI SOLVENT 10 contains flammable solvents. All the precautions must be foreseen for use of such kind of products. Use gloves and goggles to avoid the contact with eyes and skin.

Technical Data

Pack Size	20L Cans
Appearance	Clear Liquid
Specific gravity	0.87kg/L
Flash Point	30° C

Advantages

- Compatibility with most epoxy and polyurethane products.
- Ease of application.
- Reduces the viscosity / consistency of the material.
- Effective cleaning of tools and equipment.



Monneli Solvent 10

Thinner / Cleaning Solvent

Uses

MonniCure AR is used as an effective and economical curing agent compared to the traditional Hessian, water and polyethylene curing system. Suitable for all types of concrete surfaces and for concrete large areas such as

- ▶ Car park, decks and ramps, Ports
- ▶ Warehouses and unloading base
- ▶ highways & Airport runways
- ▶ Concrete tanks and reservoirs
- ▶ Floor Slabs



MonniCure AR

Acrylic Based Concrete Curing Compound

Usage Instructions

Application

MonniCure AR should be applied uniformly by sprayer, brush, roller or spray to the surface of fresh concrete at a rate of 6-8m²/liter. In certain cases, especially during high temperature or windy seasons, application might be increased. Application should be back and forth to ensure complete coverage. The coating cures to form a clear film which provides a moisture barrier to enable effective curing.

Do not spray water or any other material after applying MonniCure AR. Allow the surface to cure without any disturbance until a seamless strong film is formed. No compaction or vibrating acts are allowed close to the cured area as this will break the freshly sprayed film. Application on damp surface preferable as dry concrete surface may absorb MonniCure AR emulsion, which may cause difficulty to remove the dry film at a later stage.

MonniCure AR should be applied to newly hardened concrete immediately after demolding. It should never be applied on concrete which has started to dry out, otherwise the hydration mechanism will be seriously impaired.

Advantages

- ▶ High curing efficiency. Improves uniform hydration
- ▶ Creates a dust free, hard wearing surface
- ▶ Eliminates the need for water curing
- ▶ UV, chemical and abrasion resistant
- ▶ improves the durability of concrete surface
- ▶ Water based. Eco-friendly
- ▶ Cost effective
- ▶ Ready to use
- ▶ Versatile white-pigmented for simple, visual application
- ▶ White-pigmented version increases solar reflectivity

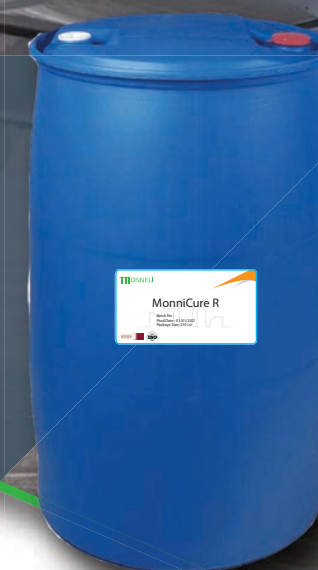
Technical Data

Pack Size	200L Drum
Appearance	White
Density	1.02 kg/L
VOC	0.9 g/L

Uses

MonniCure R provides high curing efficiency. It can be used in wide range of applications such as:

- ▶ Factory floors and warehouses
- ▶ High rise buildings
- ▶ Floor slabs and columns
- ▶ Airport hangars
- ▶ Self-curing [primer systems and subsequent coverings



MonniCure R

High Efficiency Resin Based Curing & Sealing Compound

Usage Instructions

Application

MonniCure R should be applied uniformly by brush, roller or spray to the surface of fresh concrete at a rate of 5m²/liter. In certain cases, especially during high temperature or windy seasons, rate of application might be increased.

Application should be back and forth to ensure complete coverage. The coating cures to form a clear film which provides a moisture barrier to enable effective curing. Motorized or knapsack spray equipment which produces a fine spray is recommended for use of MonniCure R.

Do not spray water or any other material after applying MonniCure R. Allow the surface to cure without any disturbance until a seamless strong film is formed. No compaction or vibrating acts are allowed Close to the cured area as this will break the freshly sprayed film.

MonniCure R should be applied to newly hardened concrete immediately after demolding. However, it can be applied as self-curing, primer system to existing concrete

Technical Data

Pack Size	200L Drum
Appearance	Clear
Density	0.8 kg/L
Curing Efficiency	90%
Flash Point	34°C

Advantages

- ▶ Provides a totally clear membrane for new or existing concrete that will not yellow
- ▶ Provides a tough, durable, uniform, moisture impermeable, long-lasting film on exterior concrete surfaces.
- ▶ Minimizes cracking, dusting, spilling and other defects common to improperly cured concrete
- ▶ Provides improved resistance to chemicals, oil,
- ▶ Cost effective
- ▶ Versatile white-pigmented for simple, visual application

Uses

MonniCure W is suitable to use for all types of concrete surfaces such as:

- ▶ Factory floors and warehouses
- ▶ High rise buildings
- ▶ Floor slabs and columns
- ▶ Multilevel parking decks
- ▶ Driveways and parking areas
- ▶ Industrial flooring
- ▶ Self-curing primer systems and subsequent coverings
- ▶ Ports
- ▶ Airport hangars



MonniCure W

Wax Based Concrete Curing Compound

Usage Instructions

Application

MonniCure W should be applied as evenly as possible to the freshly place concrete at a rate of 5m²/liter. During unfavorable conditions such as high temperature or windy seasons, rate of application might be increased.

Application should be back and forth to ensure complete coverage. The emulsion cures to form a clear film which provides a moisture barrier to enable to attain the desired degree of curing efficiency.

Application should be back and forth to ensure complete coverage. The emulsion cures to form a clear film which provides a moisture barrier to enable to attain the desired degree of curing efficiency.

Motorized or knapsack spray equipment which produces a fine spray is recommended for use of MonniCure W.

The time for the deterioration of the membrane is dependent on a number of factors such as film thickness, degree of exposure to weathering and traffic.

Advantages

- ▶ High curing efficiency
- ▶ Cured film is clear and water repellant
- ▶ Water based. Eco-friendly
- ▶ Solar reflectant
- ▶ Creates a dust free, hard wearing surface
- ▶ Eliminates the need for water curing
- ▶ Reduces surface cracking and shrinkage
- ▶ Reduces labor costs

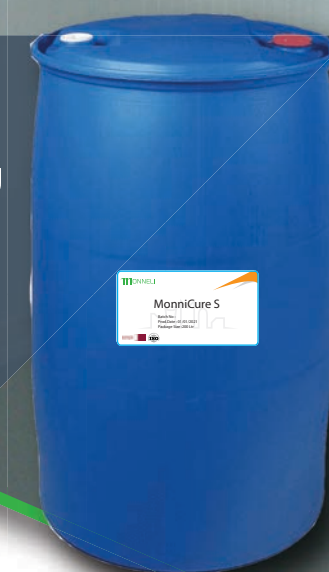
Technical Data

Pack Size	200L Drum
Appearance	White Emulsion
Density	1.02 kg/L
Drying Film	Clear, tack free
Flash Point	Nil

Uses

MonniCure S is used as an effective and economical curing agent compared to the traditional Hessian, water and polyethylene curing system. Suitable for all types of concrete surfaces such as:

- ▶ Interior and Exterior Floor Slabs
- ▶ Sidewalks
- ▶ Driveways
- ▶ Beams and Columns
- ▶ Warehouse Flooring



MonniCure S

Water based sodium silicate concrete curing compound

Usage Instructions

Application

MonniCure S should be applied uniformly by sprayer, brush, roller or soft bristled broom to the surface of fresh concrete. For best results, use spray for application.

Application should be at the rate of 15m²/ liter. The coating produces a light duty surface. It is the responsibility of the user to adjust to curing rate to properly regulate the hydration of the concrete. Two applications maybe required.

MonniCure S should be applied to newly hardened concrete immediately after demolding. It should never be applied on concrete which has started to dry out, otherwise the hydration mechanism will be seriously impaired.

Do not allow compaction or vibrating acts close to the sprayed area as this will break the freshly sprayed film.

Overcoating

Over coating can be done without removal of curing compound provided the application is within the specified coverage rate.

Technical Data

Pack Size	200L Drum
Appearance	Clear Liquid
Density	1.24 kg/L
Drying Time	30-40 minutes
VOC	1.3 g/L

Advantages

- ▶ Ready to use
- ▶ Economical
- ▶ Water based. Eco-friendly
- ▶ Colorless and Odorless
- ▶ Easy application and quick drying
- ▶ Degrading over a period of time
- ▶ Improve resistance to abrasion and corrosive action of salt and chemicals



Uses

MonniSil XS is used as a colorless surface protection for the following:

- Reinforce concrete structure
- Cementitious substrate masonry
- All types of structures including those in coastal environments
- New and existing concrete

MonniSil XS can be used as a sealer and treatment for natural stones, marbles and absorbent tiles.



MonniSil XS

Solvent Based Silane-Siloxane
Penetrating Water Repellant
Treatment

Usage Instructions

Application

MonniSil XS is a single component, applied at full strength and never diluted. Can be used directly from the container, no mixing is required but stir first before use. Apply by brush, roller or low-pressure spray

On vertical surfaces, MonniSil XS should be flooded starting at the bottom working steadily upward, For aggressive contamination, it is preferable to slightly sand blast the surface. Algae growth, if exists, should be treated with recommended biocide.

When used as a protective impregnation, a minimum of two applications is recommended. Thus, apply the second coat is still wet.

Advantages

- Excellent penetration and water repellent characteristics
- Protects surface from discoloration and weathering
- Non-staining
- Reduces water and chloride intrusion
- Reduces efflorescence
- Breathable; Allows interior moisture to escape without damaging the sealer

Technical Data

Pack Size	200L Drum
Appearance	Colorless Liquid
Density	0.80 Kg/L
Viscosity	9 cP

Uses

- As a universal versatile lime-stone and masonry surface sealer and hardener.
- Enhancing weak lime-stone and masonry facades strengths.
- As a dust proofer for cementitious surfaces.
- Sealing of highly porous cementitious substrates



MonniSil XW770

Siloxane based polymeric water repellent pore sealer & hardener for limestone, masonry & natural Stone

Usage Instructions

Surface Preparation

Surface must be sound and thoroughly cleaned before MonniSil XW770 is applied. All loose particles, old mortar, laitance, dirt, paint etc., must be removed by brushing with a stiff/wire brush or other suitable means. Fungi or Algae should be scoured away using hypochlorite type bleach or proprietary fungicidal solution and then washed with water. All traces of oil and grease must be removed with an industrial grade chemical degreaser or another suitable degreasing agent.

Application

MonniSil XW770 should be applied as a continuous flood coat using either a soft brush or low pressure spray equipment at the correct coverage rate. For best performance apply a flood coat a single flood coat at a rate of 4-6 m² / Liter.

Technical Data

Pack Size	20 Liter
Appearance	Transparent Yellowish
Number Of Coats	1
Practical Coverage	4-6 m ² /Liter

Advantages

- Easily applied by brush or spray.
- Versatile with applications of a large number of coating materials and sealants.
- Designed for highly porous weak surfaces.
- Multi-grade suiting a wide range of applications.

Uses

- As a universal versatile lime-stone and masonry surface sealer and hardener.
- Cementitious substrates: block and brick work, pre-cast panels and plasters.
- Sealing and treatment natural stone, marble and absorbent tiles.



MonniSil XW771

Waterbased nonstaining siloxane water repellent

Usage Instructions

Surface Preparation

Surfaces to be treated with MonniSil XW771 must be structurally sound and free from loose materials, grease, oils or other contaminants. Shall such contamination be present it is recommended to remove these by grit blasting and using an industrial chemical degreaser. Cracks or holes can be repaired using a recommended Monneli repair material which should be allowed to cure prior to proceeding.

Application

MonniSil XW771 should be applied as a continuous flood coat using either a soft brush or low pressure spray equipment at the correct coverage rate. For best performance 2 to 3 flood coats are recommended with a 2 to 4 hours of time in between coats (4 m² / Liter).

Advantages

- Single component fast easy application
- Cost effective
- Easily penetrates into substrates.
- Non staining.
- Reduces water and chloride intrusion.
- Increases freeze thaw resistance.
- Minimises efflorescence.
- Allows water vapour to escape from the structure

Design Criteria

MonniSil XW771 is designed to be applied by brush or low pressure spray in two to three flood coats for maximum performance. Treating tiles by immersion of silane-siloxane solution may slightly reduce bonding of tile that rely on absorption of adhesive paste for bonding.

Uses

MonniSil A is used as a surface treatment designed to protect:

- Masonry surfaces
- Bricks
- Sandstone
- Ceramics
- Limestone



MonniSil A

Water Repellant Penetrating Water Based Sealer

Usage Instructions

Application

MonniSil A is a single component solution, applied at full strength. Mix the material thoroughly before & during application. MonniSil A should be applied with a brush, roller or low pressure non-atomizing spray uniformly onto the surface at a rate of 4-5 m² / liter.

For vertical surfaces, flood the surface by applying from the bottom up applied to saturation with a controlled material rundown to ensure maximum penetration on the surface.

Extremely porous substrate may require two coats. Apply the second coat as soon as the initial surface drying of the first coat has been visible which around 2-4 hours is at ambient temperature. Cooler temperature or higher relative humidity may extend drying time.

Surfaces with salty efflorescence must be cleaned mechanically or washed with acid cleaner and subsequently rinsed with water. Wait for the surface to dry, before proceeding with the application of MonniSil A.

Technical Data

Pack Size	200L Drum
Appearance	transparent liquid
Density	1.03 kg/L
Drying Time	6-8 hours
VOC	<0.4 g/L

Advantages

- Excellent water repellant characteristics
- Reduces water absorption into the substrate, thus reducing spalling due to freeze-thaw and efflorescence, thereby increasing the life of the substrate.
- Long lasting protection.
- Transparent and non-staining/non-yellowing
- Eco-friendly Low Volatile Organic Content
- Breathable. Allows interior moisture to escape without damaging the

Uses

- As a universal versatile lime-stone and masonry surface sealer and hardener.
- Enhancing weak lime-stone and masonry floors strengths to receive resinous toppings.
- As a dust proofer for cementitious surfaces.
- Sealing of highly porous cementitious substrates



MonniSil S

Silane acrylate surface treatment, enhancer and hardener for lime stone, concrete and masonry

Usage Instructions

Surface Preparation

Surface must be sound and thoroughly cleaned before MonniSil S is applied. All loose particles, old mortar, laitence, dirt, paint etc., must be removed by brushing with a stiff/wire brush or other suitable means. Fungi or Algae should be scoured away using hypochlorite type bleach or proprietary fungicidal solution and then washed with water. All traces of oil and grease must be removed with an industrial grade chemical degreaser or another suitable degreasing agent.

Application

Product application will depend on the grade used as per the technical properties table.

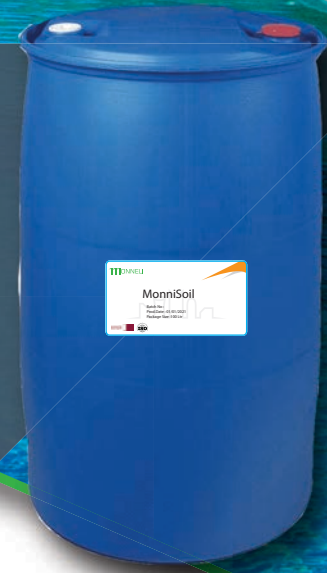
property	MonniSil S-100	MonniSil S-75	MonniSil S-50	MonniSil S-25
Relative Solid Content	100%	75%	50%	25%
Practical Coverage / Coat (m2/L)	4-6	5-8	6-10	6-15
Number of Coats	1	1	1-2	1-2
Best Used As	Film Forming Sealer	Surface Protection Against Traffic & Structural Elements Sealer	Easy to clean sealer	Sealer Against Florescence & Water Damage
Best Application Technique	Roller	Roller	Garden Sprayer	Garden Sprayer

Advantages

- Single component easily applied by brush, roller or spray
- Versatile with applications of a large number of coating materials and sealants.
- Designed for highly porous weak surfaces.
- High wetting properties.

Uses

- Stabilize sand dune in desert.
- Stabilizing dunes and slopes for roads and highways
- Erosion control for roads and highway soil consolidation before excavation.
- Landscaping, with the addition of suitable pigments and organic mulch



MonniSoil

Soil Stabilizer & Dust Suppressant

Usage Instructions

Application

For better dispersion, dilute MonniSoil with water at a ratio of 1:6. Spray on the compacted surface of the soil using suitable spray equipment with the following features

- Tank with light stirrer
- Non-clogging pump
- Spray hoses and nozzles

MonniSoil should be sprayed at an average rate of 1 m²/liter depending on the surface absorbency.

Subsequent coats shall be applied as per the rate recommended in the table (ingredients for 1000 sqm per coat)

	MONNISIL	WATER	MULCH	PIGMENT
Soil stabilizer & dust control	2 Barrels	500L	Nil	Nil
Wind & water erosion, control on slopes and embankments	3 Barrels	700L	110 kg	Nil
Landscaping including slopes and embankments	3 Barrels	700L	110 kg	10-20 kg
Hydroseeding	2 Barrels	600L	Nil	Nil

Technical Data

Pack Size	200L Drum
Appearance	White

Advantages

- Eco-Friendly
- Does not contaminate ground water
- Contains soil wetting agents
- Fully compatible with organic mulch
- Excellent resistance to erosion
- Penetrates to soil or other particulate materials



Uses

MonniSil L is used as a dustproof sealer and as clear coat for new and old concrete surfaces. It is used as sealer for the following:

- ▶ EIFS
- ▶ Colored and Stamped concrete
- ▶ Exposed aggregate concrete
- ▶ Masonry bricks
- ▶ Slates
- ▶ Manufactured and Natural Stones



Find Us

MonniSil L
Water Repellant Acrylic Sealer

Usage Instructions

Application

MonniSil L is a single component, applied at full strength and never diluted.

Mix the material thoroughly before & during application. MonniSil L should be applied with a brush, roller or low pressure non-atomizing spray uniformly onto the surface at a rate of 6-8m²/ liter.

For vertical surfaces, flood the surface by applying from the bottom up applied to saturation with a controlled (20cm) material rundown to ensure maximum penetration on the surface.

Extremely porous substrate may require two coats. Apply the second coat as soon as the surface of the first coat has been visibly dry which around 2-4 hours at ambient temperature. Cooler temperature or higher relative humidity may extend drying time.

Surfaces with salty efflorescence must be cleaned mechanically or washed with acid cleaner and subsequently rinsed with water. Wait for the surface to dry, before proceeding with the application of MonniSil L.

All cement supports must be allowed to cure for at least 21 days before being impregnated with the product.

Advantages

- ▶ Vapor barrier and protective sealer
- ▶ Can be used as a primer coat for top decorative,architectural finishes.
- ▶ Enhances the resistance to rain, sun, oil, grease, industrialchemical. Solvents, de-icing salts and most cleaning slovents.
- ▶ Eco-friendly. No VOC
- ▶ UV Resistant
- ▶ Chemical
- ▶ Easy to apply

Technical Data

Pack Size	200L Drum
Appearance	White
Density	1.02 kg/L
Thickness	25-30 micron

