

# TUFFASEAL AR403

Concrete curing membrane, sealer, hardener and dustproofer

## DESCRIPTION

**TUFFASEAL AR403** is a solvent borne, clear, acrylic resin polymer treatment designed to cure freshly placed concrete, and provide long term benefits of sealing, hardening and dustproofing the surface.

**TUFFASEAL AR403** can be applied to existing concrete surfaces to seal, harden and dustproof.

**TUFFASEAL AR403** penetrates the surface concrete matrix, providing a permanent, UV Stable, non-degrading seal to the concrete surface therefore providing resistance to penetration of oils, liquids and subsequent staining. Will also provide curing and sealing to proprietary dry shake hardening systems

## ADVANTAGES

- Simple one coat spray or roller application, unlike sodium silicate, and magnesium fluorosilicate based products.
- Can be applied directly to concrete surfaces once concrete finishing is completed, and any surface / bleed water has dissipated.
- Touch dry within 4-6 hours after application @ 20°C
- Fully cured within 24 hours @ 20°C.
- Gives a permanently hardened and dust free surface.
- Ideal as a seal for power floated floors.
- Will not prevent the bond of a wide range of surface treatments, including bonding of computer floor pedestals.
- UV stable and non yellowing in external conditions.

## PROPERTIES

Appearance:	Clear, Pale Yellow Fluid
Odour:	Solvent
Specific Gravity:	0.800 @ 20°C
Flash Point:	38°C
Viscosity:	3.0 c/st @ 40°C
Freezing Point:	<0°C
Storage Life:	Minimum 12 months in manufacturer' sealed drums.

## COVERAGE AND STANDARDS

For curing freshly laid concrete, apply @ 5m<sup>2</sup>/litre.

For hardened new concrete, apply @ 6-14m<sup>2</sup>/litre

For mature/old concrete, apply @ 10-14m<sup>2</sup>/litre

Conforms to the requirements of ASTM C-309 Curing liquids Type 1 Class B and ASTM C156-95 when applied at a coverage of 5m<sup>2</sup>/litre, restricts water loss to not more than 0.55Kg/m<sup>2</sup> of surface in 72hrs.

## Norsekem Limited

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## SUBSTRATE QUALITY & PREPARATION

### *Freshly laid concrete:*

Surface must be free of bleed water and strong enough to withstand any finishing operations.

The concrete must be prepped by suitable finishing techniques such as power floating, manual floating or tamping **before** applying Tuffaseal AR403

### *On hardened or old concrete:-*

Surfaces must be sound, open textured, clean, free of laitence, water, oil, grease, coatings and all loosely adhering particles.

The concrete must be prepped by suitable mechanical means such as high pressure water jetting, or blast cleaning equipment. All surfaces should then be brushed and/or vacuumed to remove all loose material. Pressure washed surfaces then need to dry **before** applying **TUFFASEAL AR403** .

## MIXING

**TUFFASEAL AR403** is supplied ready for use and must not be diluted. Drums should preferably be stored inverted for 24 hours before use then stirred well or rolled prior to use

## APPLICATION

Low pressure spraying is the preferred method, but rollers and brushes can also be used. Sprayers such as the Gloria Special 410T with an 8004 tip fitted are recommended for this application. Suitability of other spraying equipment should be confirmed by trials.

When sprayed, the nozzle should be approximately 500mm from the surface and passed back and forth to ensure complete coverage. A constant pressure on the pump must be maintained at all times to produce a fine mist spray.

It is important that the product is uniformly applied without thick or ponded areas, which will adversely affect the quality of finish.

Application is normally one coat, but highly porous concrete may require a second coat, which can be applied between 4-24 hours following initial application, ensure first coat is tack free.

Apply in well ventilated areas only. Care should be taken during application in high ambient temperatures and or windy conditions to avoid skin and respiratory contact.

Substrate temperatures must be above 5°C and below 30°C.

As with all resin systems do not apply if it is raining or if rain is likely. Do not apply unless the substrate is at least 3°C above dew point, as condensation and/or blooming may occur .

## LIMITATIONS

Do not use on areas where **TUFFASEAL AR403** must be removed at the end of the curing period, or where screeds, grouts, or subsequent concrete placements are to be bonded.

Do not use for curing antistatic concrete floors.

**TUFFASEAL AR403** is not designed to consolidate concrete surfaces that are friable and/or degrading.

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## CLEANING

Spray equipment should be dedicated for use with **TUFFASEAL AR403** and must be thoroughly cleaned after each use using **SOLVKLEEN** or other proprietary solvent cleaner.

Hardened and cured material can only be removed mechanically.

## STORAGE & HANDLING

**TUFFASEAL AR403** in manufacturer's sealed drums requires no special storage facilities.

Minimum 12 months in manufacturer's sealed drums. Keep away from naked flames, foodstuffs and children.

## HEALTH & SAFETY

Refer to separate safety data sheet. Copies available on request.

When spraying, care should be taken to minimise inhalation and contact with eyes and skin.

Material should be applied in well ventilated areas.

## PACKAGING & TRANSPORT

**TUFFASEAL AR403** is supplied in 25ltr and 205ltr Drums. Regulated for Road Transport

## QUALITY ASSURANCE

Norsekem Limited Products are manufactured under quality assured schemes

Norsekem Limited products are guaranteed against defective materials and manufacture. Products are sold subject to the Norsekem Limited Terms and Conditions of Sale, copies of which are available on request. Norsekem Limited endeavors to ensure that the above data and any further advice is correct, Norsekem Limited can not accept liability for the use to which products are put or the way in which they are used. All recommendations stated by the company are made in good faith. Recommendations do not over-ride the basic obligation of the user to satisfy themselves at all times as to suitability of the product for their particular application.



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