



High performance, water based, weatherproof anti-carbonation system for concrete / masonry protection

Triflex ACS

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Triflex ACS

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Car parks are important not only as investments, but to the people who use them. To obtain the maximum long term benefit from the investment and to avoid the costs and disruption of concrete repairs, the structure needs to be protected. To ensure continued use, the users need to be provided with a light, bright environment in which they feel both themselves and their property will be safe.

In many car parks the walls, columns and soffits are either unprotected, or treated with standard masonry paints which may offer little or no protection from the environment, and in particular carbon dioxide.

The Triflex solution

The Triflex ACS provides not only exceptional, proven structural protection, but significantly improves the environment for users.

The system is designed as an anti-carbonation system and the primary objective is to protect structural concrete from environmental influences.

The system is much more than a 'paint' which is designed merely to colour or brighten the substrate.

The Triflex ACS also offers all the benefits of a high quality masonry coating and can be used in the car park environment to significantly improve lux levels.

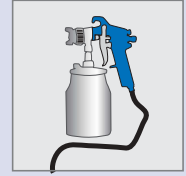
Colours and specification

The Triflex ACS is available in almost any colour allowing the client to choose combinations to provide the right balance between aesthetics, light reflectivity and maintenance.

The Triflex Technical Team can assist in the preparation of model specifications.

Suitable for:

Wall column and soffit coating



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System Benefits

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- EXCEPTIONAL CO₂ RESISTANCE** ❖ The Triflex ACS has proven, tested long term resistance to CO₂ and other acid gases providing concrete and masonry with maximum protection from carbonation.
- WATERPROOF AND ALLOWS SUBSTRATE TO BREATHE** ❖ Triflex ACS prevents further water ingress, and is also vapour permeable allowing existing water within the construction to dry out.
- ELASTOMERIC** ❖ The Triflex ACS is highly elastomeric, flexible and crack bridging, ensuring that protection is maintained even when there is movement in the substrate.
- DURABILITY** ❖ The Triflex ACS has proven longevity, having undergone extensive accelerated weathering, salt mist erosion and washing tests.
- AESTHETICS** ❖ Triflex ACS has excellent opacity, is UV resistant, non yellowing, dirt repellent and is available in virtually any colour.
- FIRE RESISTANT** ❖ Triflex ACS meets and satisfies Class O under BS476.
- SUBSTRATE COMPATIBILITY** ❖ Triflex ACS is suitable for and achieves excellent adhesion to concrete, masonry, brickwork, blockwork and other mineral substrates.
- SIMPLE MAINTENANCE** ❖ The Triflex ACS can easily be cleaned and maintained using conventional methods.
- COMMITMENT TO THE ENVIRONMENT** ❖ The Triflex environmental policy is certified under ISO 14001. The Triflex ACS anti-carbonation coating system is water based.
- QUALITY ASSURED MANUFACTURING** ❖ As all materials are manufactured to ISO9001 you can be assured of consistent quality.
- QUALITY DESIGN AND SPECIFICATION ASSISTANCE** ❖ The Triflex Technical Team can assist in all areas of the design and specification process.
- QUALITY INSTALLATION** ❖ The Triflex ACS system may only be installed by a Triflex Approved Contracting Partner or suitably trained painting contractor approved by Triflex (UK) Limited.
- WARRANTIED PROTECTION** ❖ The Triflex ACS system is offered as standard with a 10 year materials warranty. Other warranties are available – please contact Triflex (UK) Limited directly for details.



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System Data Sheet

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Properties

- Exceptional resistance to CO₂ and other acid gases
- Waterproof
- High water vapour permeability
- Highly weather resistant
- Elastomeric
- Class 0 fire resistance
- UV resistant
- Non yellowing
- Tough
- Flexible - crack bridging
- Excellent adhesion to concrete and masonry substrates
- Dirt repellent
- Easily cleaned
- Chemical resistant
- Environmentally friendly - water based
- Easy to apply by spray, roller or brush
- Excellent opacity
- Available in a wide range of colours

System Details

Triflex Primer - If necessary, to seal porous substrates and improve adhesion.
Triflex ACS - Anti-carbonation protective coating layers.

Applications

The system is suitable as an anti carbonation, weatherproof, decorative coating for car park walls, columns and soffits.

Substrate Assessment

When applying high performance coatings such as Triflex ACS the quality and in particular the adhesion of any existing coating is critical. If there are any doubts with respect to the previous coating in terms of chalking, adhesion etc, it must be removed.

Substrate Preparation

Generally:

Pressure wash with water at approximately 2000 psi and allow to dry thoroughly.

Ensure all flaking and loosely adhered existing coatings are removed.

Organic growth:

Remove any organic growth with a stiff bristle (not wire) brush.

If necessary, apply Triflex Fungi-Shield Sterilising Solution (8m²/ltr min.)

Next coat applied after approx. 24 hours.

Pore Filling

To improve the anti-carbonation protection and the appearance on heavily pored substrates we recommend that pore filling is carried out prior to coating.

Priming

If the cleaned substrate is porous, chalky or friable:

Apply Triflex AC20 Primer / Sealer (8m²/ltr min.) by airless spray, brush or roller.

Next coat applied after approx. 4 hours.

Triflex ACS Application

Apply Triflex AC20 (6m²/ltr approx.) by airless spray, brush or roller.

Next coat applied after approx. 4 hours.

Apply further coat of Triflex AC20 (6m²/ltr approx.) by airless spray, brush or roller.

Touch dry after approx. 2 hours.

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System Data Sheet

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System Components

Please see the appropriate Product Data Sheet for details about areas of application/ application conditions/mixing instructions (available on request):

Triflex Fungi-Shield Sterilising Solution

Triflex AC20 Primer/Sealer

Triflex AC20

Quality Standard

All products are manufactured to ISO 9001

Substrate Testing

Prior to the commencement of work the contractor must check and only proceed if the equilibrium moisture content of the substrate does not exceed 6% and 75% RH.

Health and Safety

Refer to product Health and Safety data prior to using the materials.

Coverage Rates

The coverage rates given are guidelines based on smooth, level substrates. Allowances must be made if the substrate is uneven, rough or porous.

Drying Times

The drying times stated are dependent upon weather conditions.

Important Notes

It is the Contractors' responsibility to ensure that the substrate is suitable and that the system is applied in all areas in accordance with Technical Data Sheets and Application Guidelines in force at the time.

The advice we can provide on the application of our products is based on extensive development work as well as many years of experience and is given to the best of our knowledge. However, the wide variety of requirements for a building under the most diverse conditions mean that it is necessary for the Contractor to test the product for suitability in any given case. We reserve the right to make alterations in keeping with technical developments or improvements.

Test Data

Testing House	Test Details	Test Result	Test Certificate No.
Taywood Engineering	CO ₂ Diffusion	R = 301 metres at 125 micron DFT	4524
Taywood Engineering	CO ₂ Diffusion after 2,000 Hours Accelerated Weathering	R = 320 metres after the equivalent of 5 yrs weathering	4522
Taywood Engineering	Moisture Vapour Transmission Rate	Flux = 83g/M ² .24hr Sp(m) = 0.533	4523
Taywood Engineering	Accelerated Weathering 14,000 hrs (equivalent to 28/30 yrs external weathering)	No significant change	4521
CENTRUM voor het EVALUEREN en TESTEN van het MATERIEEL CEM - Kwartier OOST	Salt mist to ISO 7253	No trace of any damage to film	6434
CENTRUM voor het EVALUEREN en TESTEN van het MATERIEEL CEM - Kwartier OOST	Adhesion to ISO 4624	Adhesion of AC20 stronger than the cohesive strength of concrete	6434
CENTRUM voor het EVALUEREN en TESTEN van het MATERIEEL CEM - Kwartier OOST	Washing - USUBEL - 5,000 reciprocal cycles	Film not damaged in any way	6434
CENTRUM voor het EVALUEREN en TESTEN van het MATERIEEL CEM - Kwartier OOST	Covering Power at 218g per M ²	99.72%	6434

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Model specification

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M60 Painting

To be read with Preliminaries / General Conditions.

Surface Finishes reference

Triflex ACS

Manufacturer:
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Generally

Apply Triflex ACS system fully in accordance with Manufacturer's System Data Sheet.

Substrate Assessment

Assess substrate in accordance with Triflex ACS System Data Sheet.

Substrate Preparation

Prepare substrate in accordance with Triflex ACS System Data Sheet.

Priming

Apply Triflex primer in accordance with Triflex ACS System Data Sheet.

Primer reference: Triflex AC20 Primer / Sealer

Coating Application

Apply anti-carbonation coating in accordance with Triflex ACS System Data Sheet.

Coating reference: Triflex AC20.

Installation

The works shall be executed by a Triflex Approved Contracting Partner or suitably trained painting contractor approved by Triflex (UK) Limited.

Required System Properties

- Exceptional resistance to CO₂ and other acid gases: R = 301 metres
- Waterproof
- High water vapour permeability
- Highly weather resistant
- Elastomeric
- Fire resistant – Class O
- UV resistant
- Non yellowing
- Tough
- Flexible – crack bridging
- Excellent adhesion to concrete and masonry
- Dirt repellent
- Easily cleaned
- Chemical resistant
- Environmentally friendly – water based
- Easy to apply
- Excellent opacity
- Available in wide range of colours
- Standard 10 year materials warranty
- Optional extended warranty

General Notes

The Triflex ACS System Data Sheet is to be read as an integral part of this specification.

It is the Contractor's responsibility to ensure that the substrate is suitable and that the system is applied in all areas in accordance with System Data Sheets and Application Guidelines in force at the time.

Notes to Specifiers

We recommend that for all car park projects, the actual specification clauses for the Triflex waterproofing, surfacing and protection systems are prepared by the Triflex Technical Team.

This information can then be provided in a text format for insertion into Word and other documents.