

# DAIRY FACILITY EXTERNAL YARD

## Meon Spring Farms

### Hampshire, UK

Meon Spring Farms has a large dairy facility, providing milk to the UK Supermarket Sector. The external yard was well past its original service life and was identified as an area for improvement, using available funds from a UK Government grant. The yard has to handle high volume 44T HGV milk tanker traffic as well as a range of heavy agricultural vehicles. Conventional steel mesh reinforcement is at high risk of corrosion in this type of environment and the varying camber and fall of the yard would make steel mesh fixing difficult. ADFIL were asked to advise on the use of DURUS macro fibres to overcome these issues and provide a cost effective and durable alternative.



**Project owner**  
Meon Spring Farms

**Product**  
DURUS EasyFinish

**Function**  
Replace conventional steel mesh reinforcement for external Dairy Yard.

**Contractor**  
Self help

### Challenge

Historically, agricultural concrete hardstandings and internal slabs contain embedded steel mesh fabric for crack control and post crack flexural strength.

In these environments, embedded steel is at high risk of corrosion resulting from ingress of acidic run off water, organic liquids and animal waste. This leads to reduced service life and the potential of injury to livestock hooves and damage to vehicle tyres by exposed steel mesh fabric.

DURUS synthetic macro fibres eliminate these potential issues and result in a durable and cost effective alternative to traditional reinforcement methods.

### Solution

- The ready mix concrete is supplied containing the necessary dosage of DURUS macro fibres and can be discharged directly from the mixer truck.
- DURUS EasyFinish macro fibres are an effective proven alternative to traditional steel mesh reinforcement.
- ADFIL can provide comprehensive technical and site support to ensure a quality end product.



The varying camber and falls of the dairy year would make steel fixing complicated and time consuming. There may also be problems with insufficient concrete cover, leading to early failure. DURUS macro fibres overcome these issues.



Large areas of compacted sub-base can be prepared and road forms set to allow high volume discharge directly from the mixer truck. This negates the need for expensive pump hire required to place the concrete around in-situ steel mesh.

### Benefits

The Contractor was able to show a significant reduction in construction time by eliminating the need for steel placement and fixing in the construction schedule. This also presented a significant overall cost saving due to reduced man hours and labour costs for cutting and fixing of steel mesh.

- DURUS EasyFinish macro synthetic fibres are proven to provide a high quality finish.
- Service life can be assured as the risk of deterioration and damage resulting from the corrosion of embedded steel has been eliminated.
- The use of ADFIL DURUS synthetic macro fibres to replace conventional steel mesh reinforcement give an embedded carbon saving of around 60%, allowing the project to improve its sustainability credentials.\*

\*Reference DURUS EasyFinish macro synthetic fibre Environmental Product Declaration (EPD)

#### Products used:



Durus Macro Fibres  
Macro synthetic fibre



VERIFIED ENVIRONMENTAL  
PRODUCT DECLARATION  
ISO 14025 & EN 15804

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