



# MOTORWAY

MODIFIED BINDER  
<150°C

## CONTEXT & OBJECTIVES

- **Regulatory context** : evolving DIRCO markets
- **Temperature target** : < 150°C with central control
- **Main issue** : Reducing gas consumption and CO2 emissions
- **Risk** : financial penalties if target not achieved (10% of the contract)

## SOLUTIONS DEPLOYED

- **Formula name** : BBSG R20 STAR 2735 BioRoad
- **Warm Mix additive** : 0.7% of total binder
- **Incorporation method** : by central additive pump
- **Conditions** : production and installation under real site conditions

## QUALITY VALIDATION

- **Target temperature** : tested at plant
- **Mix handling** : considered satisfactory
- **Compactibility** : in line with expectations
- **Paver setting** : easy
- **Smoke/odours** : significantly reduced
- **Site team feedback** : positive
- **Temperature control** : carried out on site
- **Compliance with DIRCO requirements** : ok

## SITE IDENTITY

**Job site name** : A20 DIRCO / DONZENAC  
**Infrastructure** : A20 motorway  
**Location** : Donzenac sector  
**Period** : From 25 to 30 September 2025  
**Contracting authority** : DIRCO  
**Works company** : NGE Routes



## MEASURED RESULTS

Production rate	100 to 120 t/h (max 1720 t/d)
Total tonnage	5720 t
Total gas	38 541
Gas consumption /t	6,74 (-26 %)
Gas economy	-0,92 € / t
Construction economy	-1,30 € / t
Économie mondiale	-1,17 € / t
Gains compared to the N-1 construction site	1 less HD140 compactor

## CUSTOMER TESTIMONIAL

**Name** : Jonathan VEYSSEIX

**Job** : Site supervisor

**Opinion** : The temperature was controlled below 150°C, with a 4 to 5% improvement in daily production and a 26% reduction in gas consumption. On application, there was one less cylinder and less smoke. There were no problems with the BioRoad during manufacture, and the client, DIRCO, was very satisfied.

