

# MacRebur MR8 Case Study



**Project:** ClwydAlyn Housing Limited in partnership with Denbighshire County Council, Welsh Government and Williams Homes (Bala) Ltd  
**Location:** Denbighshire, Wales  
**Surfacing Contractor:** Lewis & Hunter Contracting Ltd  
**Asphalt Supplier:** Robert Hunter & Son  
**Date:** April 2021

## OVERVIEW

In April 2021, as part of a continued commitment to sustainability, ClwydAlyn and Williams Homes prioritised sustainable innovative solutions in the road construction of their Welsh Government funded, Innovative Housing Programme (IHP) development in Glasdir, Ruthin. A partnership between said parties and MacRebur was established. The MacRebur product MR8 was selected for use on this project, which supports ClwydAlyn and Williams Homes continued commitment to low carbon construction. MR8 is manufactured from 100% waste plastics and is used to replace part of the bitumen in asphalt mixes, this offers a significant CO<sub>2</sub>e reduction. The asphalt was supplied by Robert Hunter & Son and the surfacing works were carried out by Lewis & Hunter Contracting.

## THE PROJECT

A 10mm Stone Mastic Asphalt was laid containing MacRebur MR8 at 6% of the binder weight. The use of MR8 as partial binder replacement on this project allowed Robert Hunter & Son to optimise the volume of bitumen in the asphalt mix, giving the client the opportunity to deliver increased environmental sustainability whilst delivering the project to the required standard and within the required timeframe. A 10mm Stone Mastic Asphalt was laid containing MacRebur MR8 at 6% of the binder weight. The use of MR8 as partial binder replacement on this project allowed Robert Hunter & Son to optimise the volume of bitumen in the asphalt mix, giving the client the opportunity to deliver increased environmental sustainability whilst delivering the project to the required standard and within the required timeframe.

## THE OUTCOME

The re-surfacing works using MR8 resulted in an astounding 1800kg of plastic waste recycled, 1800kg of bitumen reduced and resulting in a CO<sub>2</sub>e saving of 2790kg. The resurfacing was made possible through the collaborative efforts of MacRebur, Lewis & Hunter Contracting, Robert Hunter & Son, ClwydAlyn and WilliamsHomes. MacRebur are looking forward to extending the number of projects in Wales as a result of the successful and sustainable resurfacing works carried out in this development.

This project recycled  
**1,800kg**  
of plastic

That's a Co2  
saving of  
**2,790kg**



“ The process of incorporating waste plastic into the asphalt mix was easy and resulted in a workable material. In the future we are looking to install a silo to extend the application of plastic roads in Wales ”

**Hugh Hunter,**  
Director, Rober Hunter & Son

