

Quality!

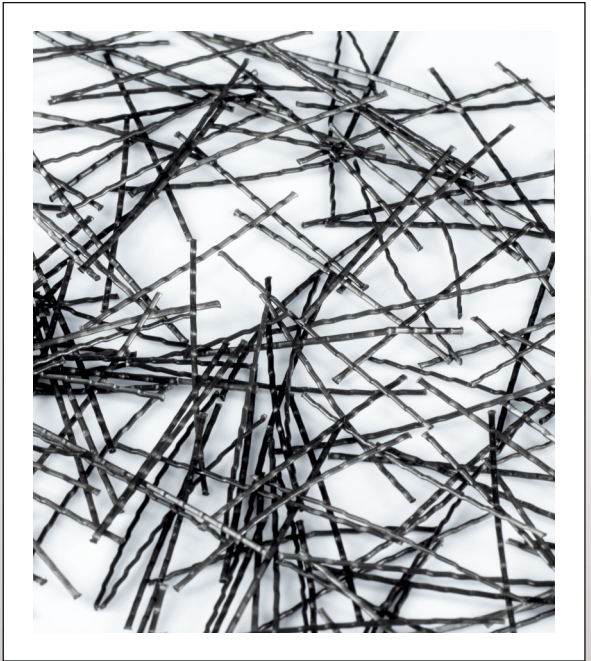
# SIME▶PLAST

**Q**fibre **MAKRO 40**

**POLYMER  
FIBRE  
REINFORCEMENT**

## What is Qfibre Makro 40?

**Qfibre Makro 40** is polymeric structural macrofibre designed to be used in concrete as dispersed reinforcement which can replace reinforcement mesh or steel fibre reinforcement. In contrast to the traditional solution **Qfibre Makro 40** has high chemical resistance, so it can be used to protect concrete fibres exposed to aggressive weather conditions and corrosive phenomena.



## Typical applications

- Concrete floors in warehouses, service and industrial facilities,
- Floorings made with mixer and pump (with/without floor heating),
- Concrete screeds and slabs in residential and commercial buildings,
- Outdoor concrete pavements exposed to weather conditions.

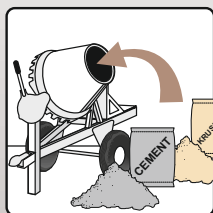
**EASY TO TRANSPORT AND STORE!**

# SIME▶PLAST

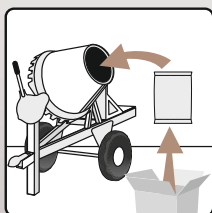
## Why use Qfibre Makro 40?

- It increases the tensile and bending strength of concrete, increases the stiffness of concrete elements and their resistance to mechanical damage,
- Can be used as dispersed structural reinforcement replacing reinforcing mesh or steel fibre reinforcement,
- Diminishes the risk of cracks by reducing deformation caused by drying shrinkage, temperature gradient and mechanical loads,
- Improves the the transfer of tensile stress and crack bridging in concrete and reduces drying shrinkage,
- Reduces the wear and tear of metal and rubber elements of concrete mixers, mixer pumps, agitating trucks, pipelines, pumps and mixers (in contrast to steel fibres),
- Does not cause magnetic disturbances, so it can be used for floors in rooms with electronic devices (e.g. in hospitals and warehouses with digital management systems),
- It is highly resistant to chemical factors such as acidic and strongly alkaline environment, corrosion caused by chlorides, sulphates and mould and also standard oxygen corrosion,
- Prevents the formation of "hedgehogs" and makes it easier to mix smooth, homogeneous concrete with uniformly distributed fibres.

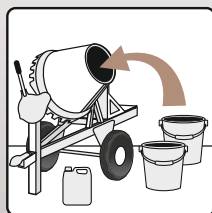
## Application and dosage



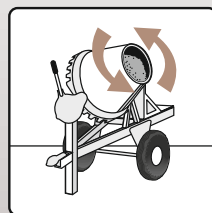
**1.** Put the cement and aggregate in right proportions into the mixer and mix well.



**2.** Add appropriate amount of fibre into the dry mix and continue mixing.



**3.** Put  $\frac{3}{4}$  of the total amount of mixing water into the mixer, add the admixture and the remaining part of water, as required..



**4.** Mix it well, until homogeneous.

The recommended dosage of the mixture is  $1.5 - 10 \text{ kg/m}^3$  of the mix, depending on the desired mechanical parameters of the hardened concrete. Standard dosage is  $4 \text{ kg/m}^3$  of concrete ( $\approx 0.6\text{kg}/50 \text{ kg}$  of cement).

## Available packaging

Small bag 600g, large bag 5 kg



Distribution:

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e-mail: [dmb@dmb.com.pl](mailto:dmb@dmb.com.pl), [www.dmb.com.pl](http://www.dmb.com.pl)



Class II polymeric structural macrofibre,  
in accordance with PN-EN 14889-2