

## CSM-101 Surface Fairing Coat

### Description

CSM 101 is a Concrete Surfacing Mortar suitable for use internally and externally as a fairing coat on vertical or overhead soffit concrete elements. CSM 101 is one component cement based, fine grained, polymer modified Class R2 mortar, meeting the requirements of EN1504-3. CSM 101 should be used in applications for levelling the surface up to 3mm in thickness, where the concrete will not be trafficked and also receive a subsequent coating.

### Applications

CSM 101 is suitable for use on suitably prepared concrete surfaces in the following applications:

- Filling in minor blowholes and defects such as honeycombing on concrete surfaces
- Levelling surface imperfections up to 3mm in depth
- Cosmetic Repairs to precast concrete elements such as stairs, architectural panels etc.

Note that the existing concrete should be above C16/20 compressive strength with a pull off strength greater than 1.0 MPa, and a suitable primer may be required, depending on the substrate. Normal concrete curing procedures should be adhered to.

### Product Use

This product only requires the addition of clean water. K-PRO CSM products should be mixed in a suitable forced action mixer or spiral screw paddle drill at a low speed to ensure a lump free, smooth, consistent mortar. Mix the contents of a 20kg bag with 6.0 litres of clean potable water. Water should be measured and placed in the mixing container prior to addition of the full 20kg bag of dry powder and mixed for a minimum of 3-5 minutes taking care not to entrain air. The product should be used immediately after mixing in suitable weather conditions. Re-mixing or the later addition of water is not permitted as this will have an adverse effect on the life and durability of the product.

**Placing:** KPRO CSM-101 is used for applications from 0.5mm – 3mm in thickness. All surfaces must be clean and free from laitance, dust, debris and all oils etc. Roughen the surface and expose the fine aggregate by light scabbling or grit-blasting. The area to be repaired should be pre-soaked immediately before application with residual surface water removed.

Apply the mixed material to the prepared substrate with a steel trowel as a scrape coat of minimal thickness. Apply the material, ensuring not to over work, and trowel to a smooth finish. If a very smooth finish is required, a small amount of water can be flicked on to the surface of the fresh material with a paint brush prior to final trowelling.

**Curing:** Should be as per standard practices for cement based products. Repair mortar should be protected from strong sunlight and cold weather. Care should be taken to ensure water does not run onto recently repaired areas less than 12 hours old.



### Benefits

- Compatible with concrete strengths ranging from C16/20 to C35/45
- Excellent bond to concrete surfaces
- Pre-mixed on component eliminates inaccuracy of site mixing
- Low permeability to water and chlorides
- Chloride free

### Approximate Yield

Coat Thickness	m <sup>2</sup> per 20 kg bag
1mm	11.8
2mm	5.9
3mm	4.0

### Application Temperatures



+5°C to +25°C

### Health & Safety

Please refer to the relevant Material Safety data sheet online at [www.kilsaran.ie](http://www.kilsaran.ie).

### Pack Size

- 20kg premixed bags

### Get in touch



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**Technical Data**

KPRO CSM-101 is tested and marketed in accordance to CPR 305/2011 and complies with classification R2 according to EN 1504-3 for the structural and non-structural repair of concrete structures using method 3.

<b>CE</b>	
Kilsaran Concrete, Piercetown Dunboyne Co. Meath Ireland 20	
EN1504-3 Polymer hydraulic cement mortars and concretes (PCC) Structural and non-structural repair, method 3	
Compressive Strength	R2 ( $\geq 15$ MPa)
Adhesive Bond by pull-off	$\geq 0.8$ MPa
Chloride ion content	$\leq 0.05\%$
Carbonation Resistance	Pass
Elastic Modulus	NPD
Thermal Compatibility – Part 1: Freeze-thaw	$\geq 0.8$ MPa
Resistance to fire	Class A1
Dangerous Substances	Complies with 5.4 of EN 1504 parts 3 & 6

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