



CM Polyurethane FC40

DESCRIPTION - CHARACTERISTICS

FEBRUARY 2017

CM PU FC 40 is a fast moisture curing one component sealant based on polyurethane, which forms a flexible and resistant joint with very good adhesion on most materials.

CM PU FC 40 has CE marking for following applications:

- sealants for facade elements for interior and exterior applications usable in cold climate according to European Standard EN 15651-1 (F EXT-INT CC)
- sealants for pedestrian walks for interior and exterior applications usable in cold climate according to European Standard EN 15651-4 (PW EXT-INT CC).

AREAS OF APPLICATION

CM PU FC 40 can be used either for bonding various construction materials or as a sealing joint. It has excellent adhesion, without primer, on most construction materials: wood, anodized aluminium, polyester, glass, concrete, stone, concrete roof tiles, ceramic tiles, etc. Its principle application is sealing expansion joints in concrete floor joints and saw cut joints. It is used in warehouses and external forecourts.

For difficult materials, including plastics such as PVC, ABS, PMMA, or materials such as raw aluminium, lacquered metal, preliminary tests are mandatory to determine whether a surface preparation is necessary.

TECHNICAL DATA

Appearance	Paste
Colours	Concrete Grey
Density	1.16 ± 0.05
Sagging (ISO 7390)	< 3 mm
Application temperature	5 to 35 °C
Skin formation, superficial curing at 23 °C and 50 % RH	70 ± 20 min
Curing at 23 °C and 50 % RH	> 3 mm/24 h
Shore A hardness (internal method IT-20 after ISO 868 – 3 seconds)	Approx.40
Modulus at 100 % elongation (ISO 8339)	Approx. 44 psi (ca 0.3 - 0.4 MPa)
Elongation at break (ASTM D 412)	> 400 %
Modulus at 100 % (ISO 37)	Approx. 0.3 MPa



Modulus at break (ISO 37)	Approx. 1.4 MPa
Elongation at break (ISO 37)	> 600 %
Tear resistance (ISO34)	Approx. 8.5 N/mm
Resistance to dilute acids and bases	Average
Resistance to UV radiation	Good
Water and salt spray resistance	Excellent
Compatibility with paints	On cured sealant Water based : yes Solvent based : carry out tests beforehand
Temperature resistance	-40 to + 80°C
Classification according to ISO 11600 standard	F 25 HM

INSTRUCTIONS FOR USE

Substrates Preparation :

The substrates must be clean, even, dry, free of dust, oil, grease and any contaminants that could harm bonding. Clean with solvent if necessary.

Check the compatibility of the solvent used with the substrates.

When using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer or supplier.

Apply a primer if necessary.

If necessary, rub down metal surfaces beforehand. Clean them after rubbing down.

Allow the substrate to dry after cleaning.

We recommend to clean concrete with a metal brush.

Application :

CM PU FC 40 can be applied by a manual or Battery operated gun e.g Milwaukee M18 Caulking Gun.

After application, use a putty knife to smooth the joint with soapy water.

This product should be used within 24 hours of opening the cartridge or sausage protection ; otherwise, the sealant could cure inside.

Do not apply at a temperature under 5 °C.

Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.

Cleaning :

Tools should be cleaned with CM Multi Wipes and or MEK / Acetone before the sealant has completely cured.

PACKAGING

600 ml Foil Packs.

Consult CM Sealants for other packaging options.



COVERAGE

Joint size: 12 x 12 mm = 4.2 metres per Foil Pack.
15 x 12 mm = 3.3 metres per Foil pack
20 x 12 mm = 2.55 metres per Foil Pack

STORAGE AND SHELF LIFE

18 months in the original and hermetically sealed cartridges at a temperature lower than 25°C.

In cold weather, store the cartridges at about 20 °C before use.

Prior to make applications at low temperatures, store and keep packaging at a temperature at about 20°C.

SAFETY

Read the material safety data sheet before use.

Note :

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired.

Before using the product, the user should carry out any necessary tests or trials in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

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