

DEUXAN® 2 C-Extratight

Techn. Leaflet / Product Code **1.16**

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General Test Certificate of the Building Supervisory Authority P - 99 - 14
- 1212/02 of the Materials Testing Laboratory for the building industry,
Dresden, waterproofing against non-pressurised and pressurised water



TM "DEUXAN" registered as trademark, German Patent Office, K 50 863

Off. Test Certificate, MTL Dresden – based on the guidelines of the „Deutschen Bauchemie e.V.“ (German construction chemicals) „guidelines for planning and waterproofing of below grade building units with synthetic bitumen thick film sealants“ issued in June 1996 following DIN 18195

Off. Test Certificate, OMTL Hannover – Executed tests: water impermeability of waterproofing materials on polystyrene elements with and without vertical joints

Off. Test Certificate, OMTL Hannover – slot pressure test

CRACK-BRIDGING, 2COMP. BITUMEN/RUBBER-THICK FILM SEALANT FOR SEALING OFF BELOW GROUND NON-PRESSURISED AND PRESSURISED WATER IN BUILDINGS

DESCRIPTION

DEUXAN® 2C Extratight is a filler free, two-component bitumen thick film sealant that safely sealing off even „pressurised water“ in buildings. It bridges cracks reliably in the substrate and is impermeable to pressurised water. DEUXAN® 2C Extratight cures by chemical reaction between the 2 components.

waterproofing system under screeds and as an adhesive for insulating and drainage boards.

TECHNICAL DATA

Basis	bitumen/rubber with powder admixture
Spec. gravity of mixture	1.07 g/cm ³
Heat resistance	+ 158 F / 70°C
Elongation at break	app. 100 %
Water impermeability after full cure (following DIN 1048, P. 5): watertight up to 5 bar	
Curing time at 20 °C	app. 24 hours
Minimum temperature during curing time:	35.6 °F / 2°C
Mix time	at least 3 minutes
Pot life	app. 90 minutes (20° C)
Application temperature	41°F / 5°C - 95°F/35°C
Substrate temperature	41°F/5°C - 86°F/30°C

SURFACE PREPARATION

The substrate should be dry or damp (not wet), free of grease, tar, oil, laitance and loose particles that might affect the bonding adversely. Use hammer and chisel – or other suitable tools to open up awkward openings such as construction joints and honeycombs. The surface should be in such condition that when applying DEUXAN 2C Extratight one must be sure to reach into all depressed areas and ensure a uniform layer, free of pinholes and other irregularities. Remove protruding mortar that might prevent a uniform application, if necessary, smooth edges with a fillet. Fill honeycombs, joints, rough surfaces and uneven areas up to 5 mm depth with a trowel mass made of DEUXAN 2C. If the cracks are larger than 5 mm, fill them with KÖSTER Repair Mortar. Allow the DEUXAN 2C filler material to dry for about 3 hours and the KÖSTER Repair Mortar filler material for about 24 hours before applying the waterproofing layer. We recommend applying KÖSTER BE Primer blue (app. 100 – 200 g /m²) to rough-porous, dusty and absorbent substrates.

FIELD OF APPLICATION

Once DEUXAN 2C Extratight has been applied to the substrate it leaves a durable thick film coating in accordance to DIN 18195. It seals off even “pressurised water”. The coating also serves as a

The above mentioned information and instructions are given to the best of our knowledge and belief based on tests and our long experience in this field. A correct and successful application is not subject to our control. Therefore, a guaranty can only be given for the quality of our products within our normal business terms but not for a successful application. With this technical leaflet previous ones are no longer valid.

APPLICATION

Add the powder to the liquid component (in its original container) in small lots and mix it with a low speed mixer thoroughly until the mixture forms a pasty, lump-free, homogeneous mass. (mixing time at least 3 minutes). Apply DEUXAN 2C Extratight with a smoothing trowel. One layer applied in 3 – 6 mm thick will be sufficient. The pot life of the material is app. 90 minutes at 68°F /20° C. Do not apply the material at temperatures below 41°F /5° C. It is absolutely necessary to avoid frost impact during curing time.

It is necessary to apply two layers, if the material is subjected to long-term accumulating and to pressurised water. The total wet thickness should then be app. 7 mm. Embed KÖSTER Glass Fibre Mesh between layers. Protect the fresh coating from direct sunlight and from rain. Crack-prone areas should also be reinforced with KÖSTER Glass Fibre Mesh. Seal expansion joints by inserting KÖSTER Flextape 120 at the joints. Avoid seepage behind the coating. Allow coating to cure fully until the material is able to withstand stress (depends on the weather, but at least 24 hours).

The coating requires protection against backfill, e.g. with polystyrene drainage boards. A drainage according to DIN 4095 or similar is required for optimal performance.

When used to waterproof horizontal surfaces that require protective screed, use 2 layers of PE foil before applying the screed. This is to avoid thermal difference in the screed and the substrate stressing the DEUXAN 2C. The screed is now floating and will not be influenced by other component. movements.

Fillet (ground moisture and non-pressurised water)

Form the fillet (app. 2x2 cm) between wall and floor prior to waterproofing using DEUXAN 2 C (app. 0.1 kg per m).

Fillet (pressurised water)

Form the fillet (width and height 4 – 6 cm) between wall and floor at least 24 hours prior to waterproofing using KÖSTER Repair Mortar (app. 2 – 3 kg per m).

CONSUMPTION

layer thickness of wet material

non-pressurised water	5.5 mm
≙ minimum coverage	6.0 kg / m ²
pressurised water	6.5 mm
≙ minimum coverage	7.0 kg / m ²

CLEANING OF TOOLS

Clean the tools immediately after use with water. Remove cured material with KÖSTER Bitumen Remover.

PACKAGING

Comp. A – Liquid 24 kg drum
Comp. B – Powder 8 kg bag

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STORAGE

Store material in a cool and frost free place in the original containers

SHELF LIFE

6 months in original packaging

Following technical leaflets were referred to:

KÖSTER Bitumen Primer	1.01
KÖSTER NB I grey	3.021
KÖSTER Repair Mortar	5.030
KÖSTER BE-Primer blue	7.26
KÖSTER Flex Tape K 120	11.01