

INSTALLATION INSTRUCTIONS

Curaflex® casings with fixed and loose flange

- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T



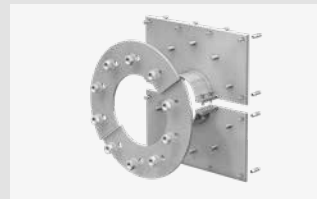
Curaflex® 7005



Curaflex® 7005/T



Curaflex® 7006



Curaflex® 7006/T

Dear Customer,

Thank you for choosing a quality product from our range.

Please read this message and the included installation instructions in full before installing or processing our products and keep both in a safe place after installation.

Safety instructions:

- Our products may only be installed by persons with the necessary specialist knowledge.
- For your own protection and the protection of third parties, the work area and any necessary pipe trenches must be properly constructed and secured in accordance with the applicable regulations.
- When installing our sealing and fire protection systems, the recognised rules of technology, the relevant regulations of the employers' liability insurance associations, the VDE regulations and the applicable safety and accident regulations must be observed. Parts of the body may be crushed or other serious injuries may occur when tensioning or fixing the products in place.
- The safety data sheets must be observed.
- Check that the delivered product is complete (the scope of delivery is listed separately in the installation instructions) and check all individual parts for any damage. Only undamaged parts may be installed.
- Check that the product is suitable for its intended use using the installation instructions. If there are any particular demands,

please clarify the use of the product with us in advance. Request our checklists for this purpose or download them from www.doyma.com.

Any liability on our part is excluded for misuse!

- Finally, please observe the instructions for the tools and equipment required for installation.

Industrial property rights:

- Our industrial property rights and those of third parties must be observed.

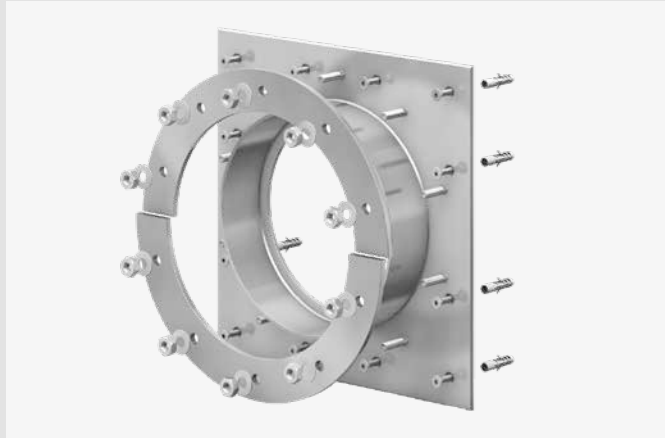
Disposal:

- Please observe the applicable regulations when disposing of components, accessories and packaging.

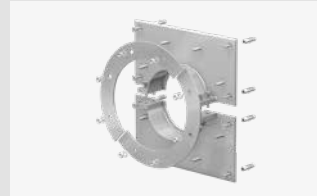
Terms and conditions of sale:

- The current version of our terms and conditions of sale and delivery shall prevail.

- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T



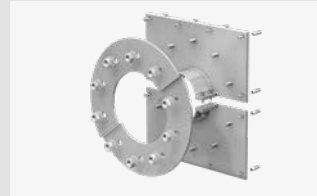
Curaflex® 7005



Curaflex® 7005/T



Curaflex® 7006



Curaflex® 7006/T

Intended use

Steel casing pipe for flange-mounting to the wall, ceiling, base plate / sole; to accommodate a sealing insert; for buildings with sealing membranes and thick coatings (black trough) in accordance with DIN 18195/DIN 18533/DIN 18535

Curaflex® 7005,7005/T:

Application for non-pressing water.

Curaflex® 7006,7006/T:

Application for pressing water.

Curaflex® 7005/T or 7006/T:

Application for retrofitting for already laid pipe/ cable (divided version).

Please note

- To seal the annulus between pipe/cable and lining pipes you need a sealing element.
We recommend the installation of a Curaflex® sealing insert. If the line has already been laid, the steel casing must be positioned and fixed centrally around the line before dowelling.
- If the pipe/cable is not centric to the steel casing tube, after consultation with DOYMA, a special construction may be necessary. If a casing pipe is already in the wall, it must be flush with the wall.
- Additional accessories are required to seal a split casing pipe of the above mentioned Types:
Sika Adhesion Cleaner-1, Sika Primer-3N, Sikaflex -11 FC+. In case of mounting with a thick coating, you will need a hollow punch (not included in the scope of delivery).

Scope of delivery:

- Curaflex® Outer casing pipe (when using thick coating in a sanded version)
- with sanded Curaflex® casing pipe additionally glass silk fabric, spacer disc, rubber seal
- Fixing material for fixing the casing pipe
- Installation instructions

Accessories (optional)

Additive layers (Curaflex® 1775)

Sika Adhesion Cleaner-1 (Curaflex® 1754)

Sika Primer-3 N Primer (Curaflex® 1755)

Sikaflex-11 FC+ (Curaflex® 1756)

Installation conditions

The wall must be clean, level, dust-free, dry and free of scrape marks and chipping. The steel casing pipe must be clean, free of dust and grease. The diameter of the core drilling/wall casing pipe must be smaller than the diameter of the pipe socket of the steel chuck pipe. As a rule, distances for flange constructions according to DIN 18195/DIN 18533 must be arranged as follows: Flange outer edge to outer edge of flange or to other components, e.g. building edges and grooves, wall connections, at least 150 mm for non-pressing water and at least 300 mm for pressing water. In the case of expansion joints, distances of at least 300 mm must be maintained for non-pressing water and at least 500 mm for pressing water, unless a larger distance is required for processing reasons.

- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T

Installation steps

Curaflex® 7005, 7006 with sealing membranes/additive layers



Position the casing pipe on the wall and mark dowel holes.
Important: If the pipeline has already been laid, it is essential to position the casing pipe centrally to the pipeline!



Drill the dowel holes and insert the dowels.



Minimum drill hole depth $t \geq 70$ mm
 Dowel length $h = 50$ mm
 Drilling/hole diameter $dB = 10$ mm



Mount the casing pipe to the wall, insert screws and tighten.



Compensation of the transition from the fixed flange to the wall with mortar (C).



Cut the sealing membrane (A) and possibly the necessary additive layers* (B) for loosely laid membranes according to the manufacturer's specifications (use loose flange as template).
 Position the additive layers and sealing membrane on the fixed flange (C). When cutting the sealing membrane, make sure

that its surface is not damaged. The holes for the bolts must be drilled with a hollow punch (M12 = 16 mm, M20 = 24 mm). Fit both halves of the loose flange (D) with the chamfer in the direction of the additive/sealing membrane, fit washers and nuts.

Important: The sealing membrane may not show any kinks, folds, joints, joints or similar in the area of the fixed and loose flange.

* Elastomeric additive layers (according to DIN 18195/DIN 18533) for plastic sealing membranes are available as accessories.



Repeatedly tighten nuts crosswise alternately. Torques see table (extract from DIN 18195/DIN 18533 or according to the specifications of the track manufacturers).

Curaflex® 7005, 7006 with thick coating



Position the casing pipe on the wall and mark dowel holes.
Important: If the pipeline has already been laid, it is essential to position the casing pipe centrally to the pipeline!



Drill the dowel holes and insert the dowels.

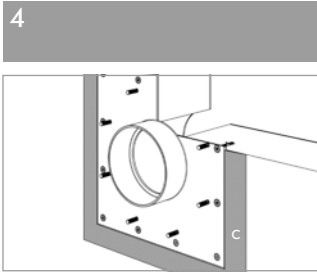


Minimum drill hole depth $t \geq 70$ mm
 Dowel length $h = 50$ mm
 Drilling/hole diameter $dB = 10$ mm

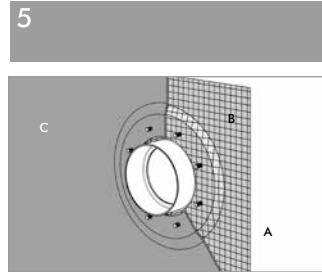


Mount the casing pipe to the wall, insert screws and tighten.

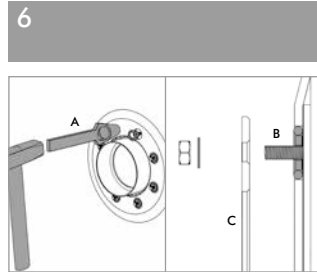
- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T



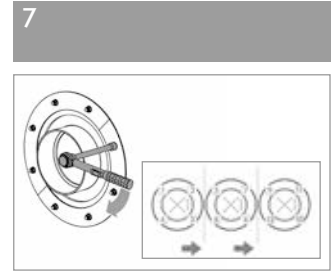
4 Compensation of the transition from the fixed flange to the wall with mortar (C).



5 Apply the first coat of KMB Thick Coating (A) to the surface to be sealed and to the sanded fixed flange (KMB = plastic-modified thick coatings). Observe the guidelines for processing KMB. Insert the fleece/reinforcement insert (B) and press lightly into the thick coating. Apply the second coat of KMB (C).

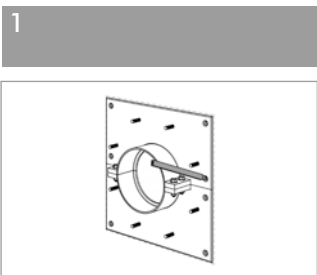


6 KMB after drying, punch out centrally around the bolts by means of a hollow punch (A) (Ø 40 mm for M12, Ø 55 mm for M20). Insert spacers and O-rings (B). Fit both halves of the loose flange (C) with the chamfer or sanded surface in the direction of KMB, fit washers and nuts.

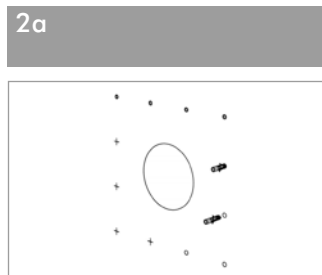


7 Tighten nuts several times crosswise. For torques see table, rear side (extract from DIN 18195/DIN 18533 or according to specifications of the track manufacturers).

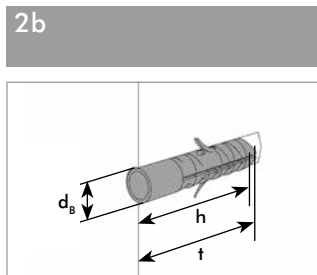
Curaflex® 7005/T, 7006/T with sealing membrane/additive layers



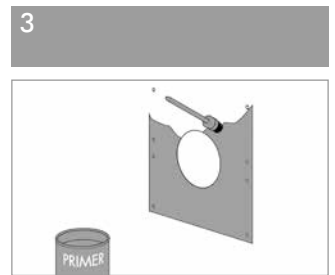
1 Position the divided casing pipe mounted together on the wall and mark the dowel holes.
Important: If the pipeline has already been laid, it is essential to position the casing pipe centrally to the pipeline!



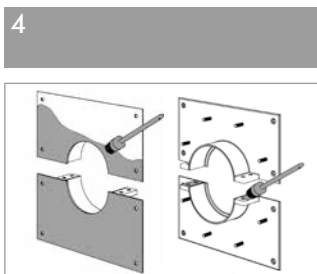
2a Drill the dowel holes and insert the dowels.



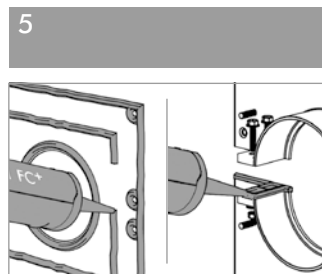
2b Minimum drill hole depth $t \geq 70$ mm
Dowel length $h = 50$ mm
Drilling/hole diameter $d_B = 10$ mm



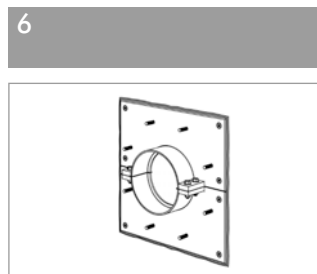
3 Apply Sika Primer-3N to the wall in the area of the casing pipe using a brush.



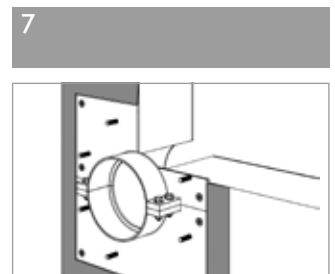
4 Apply Sika Adhesion Cleaner 1 on the back of the fixed flange (against the sleeve) and on the dividing plates using a brush or cloth.



5 Apply the Sikaflex-11 FC+ sealing adhesive (HDK) to the wall. Apply HDK in the area of the steel casing pipe to the wall and the dividing plates in a spider-web fashion. Screw the steel casing pipe halves together with mounting set. A prerequisite for a permanent sealing is the continuous webbing of the HDK.



6 Mount the casing pipe to the wall, insert screws and tighten.
Note: To check the correct assembly, sealant should swell out of all holes of the plate and all around inside and outside when tightening the screws.

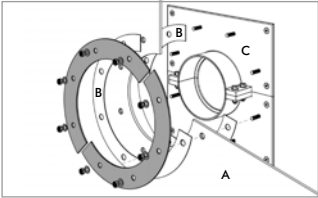


7 Compensation of the transition from the fixed flange to the wall with mortar (C).

Curaflex® casing pipes with fixed and loose flange

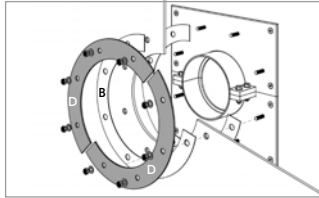
- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T

8a



Cut the sealing membrane (A) and possibly the necessary additive layers* (B) for loosely laid membranes according to the manufacturer's specifications (use loose flange as template). Position the additive layers and sealing membrane on the fixed flange (C). When cutting the sealing membrane, make sure that its surface is not damaged. The holes for the bolts must be drilled with a hollow punch (M12 = 16 mm, M20 = 24 mm).

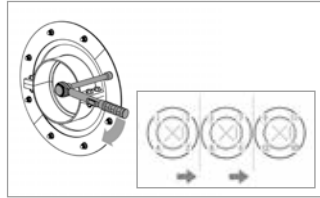
8b



Fit both halves of the loose flange (D) with the chamfer in the direction of the additive/sealing membrane, fit washers and nuts. **Important: The sealing membrane may not show any kinks, folds, joints, joints or similar in the area of the fixed and loose flange.**

* Elastomeric additive layers (according to DIN 18195/DIN 18533) for plastic sealing membranes are available as accessories.

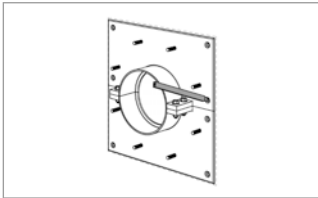
9



Repeatedly tighten nuts crosswise alternately. Torques see table (extract from DIN 18195/ DIN 18533 or according to the specifications of the track manufacturers).

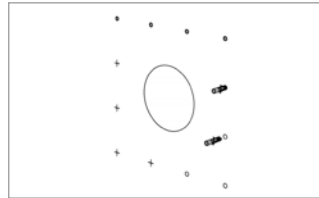
Curaflex® 7005/T, 7006/T with sealing membrane

1



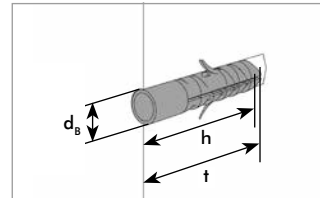
Position the divided casing pipe mounted together on the wall and mark the dowel holes. **Important: If the pipeline has already been laid, it is essential to position the casing pipe centrally to the pipeline!**

2a



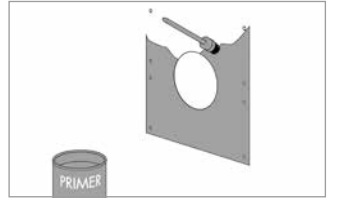
Drill the dowel holes and insert the dowels.

2b



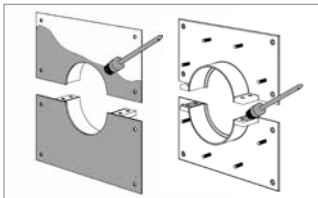
Minimum drill hole depth $t \geq 70$ mm
Dowel length $h = 50$ mm
Drilling/hole diameter $d_B = 10$ mm

3



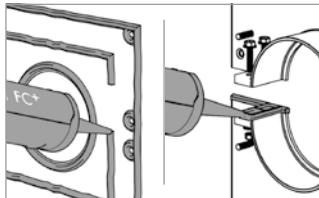
Apply Sika Primer-3N to the wall in the area of the casing pipe using a brush.

4



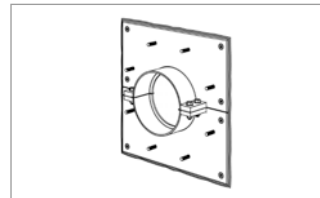
Apply Sika Adhesion Cleaner 1 on the back of the fixed flange (against the sleeve) and on the dividing plates using a brush or cloth.

5



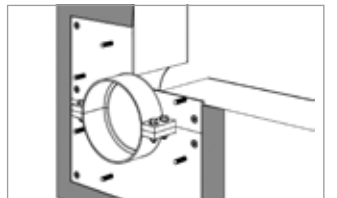
Apply the Sikaflex-11 FC+ sealing adhesive (HDK) to the wall. Apply HDK in the area of the steel casing pipe to the wall and the dividing plates in a spider-web fashion. Screw the steel casing pipe halves together with mounting set. A prerequisite for a permanent sealing is the continuous webbing of the HDK.

6



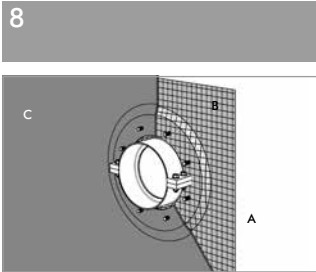
Mount the casing pipe to the wall, insert screws and tighten. **Note: To check the correct assembly, sealant should swell out of all holes of the plate and all around inside and outside when tightening the screws.**

7

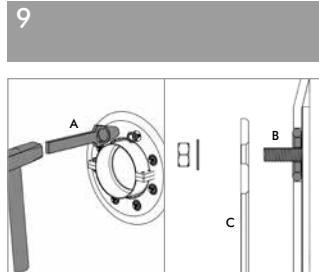


Compensation of the transition from the fixed flange to the wall with mortar (C).

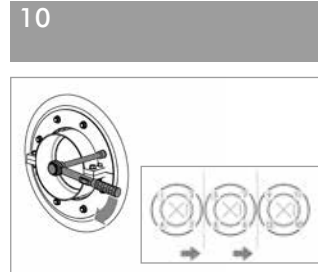
- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T



Apply the first coat of KMB Thick Coating (A) to the surface to be sealed and to the sanded fixed flange (KMB = plastic-modified bitumen thick coatings). Thereby, observe the guidelines for the KMB processing.
Insert the fleece/reinforcement insert (B) and press it lightly into the thick coating.
Apply the second coat of KMB (C).



After drying, punch out KMB using a hollow punch (A) centrally around the bolts (Ø 40 mm for M12, Ø 55 mm for M20). Insert spacers and O-rings (B). Fit both halves of the loose flange (C) with the chamfer or sanded surface in the direction of KMB, fit washers and nuts.



Repeatedly tighten nuts crosswise alternately. For the torques, see table (excerpt from DIN 18195/DIN 18533 or according to the manufacturer's instructions of the thick coating).

For fresh concrete bonded waterproofing membranes

Fresh concrete bonded waterproofing membranes are not regulated by DIN 18533. The DAfStb (German Committee for Reinforced Concrete) guideline – 'Wasserundurchlässige Bauwerke aus Beton' [Waterproof concrete structures] (Waterproofing guideline) and DIN 1045 provide for additional measures, particularly with regard to usage class A, and do not preclude sealing in the composite. The use of fresh concrete bonded waterproofing membranes in both areas of application therefore requires the consent of the client and must be carried out in compliance with the building supervisory regulations or in accordance with the specifications of the applicable general building inspection certificate for the respective membrane.

Fresh concrete composite systems with fleece lamination

- Lay the fresh concrete bonded waterproofing membrane in accordance with the specifications of the membrane manufacturer and fasten it to the formwork.
- Marking of the penetration, bolts and external dimensions of the fixed flange on the fresh concrete bonded waterproofing membrane.
- Use a punch to create the holes for the bolts (M12 = 16 mm, M20 = 24 mm).
- In the area of the flange connection, the swelling paste must be applied to the fleece lamination on the side of the fresh concrete bonded waterproofing membrane facing the concrete.
- Attach the first EPDM packing* to the fixed flange and attach the fixed flange to the formwork with 20 Nm.

DOYMA Curaflex sealing systems are tested for use with the fresh concrete composite systems SikaProof A (Sika Deutschland GmbH) and Preprufe (GCP Germany GmbH). The contents of the tests are contained in the corresponding test reports.

The test reports can be downloaded from the download centre at www.doyma.com.

- Concreting of the component and stripping after the concrete has cured.
- Place the second EPDM packing on the loose flange and screw the loose flange to the fixed flange. Tighten the nuts several times crosswise. The nuts must be tightened after the swelling paste has dried for at least one week. Torques must be carried out according to the specifications of the membrane manufacturer or the specifications of the respective test report (SikaProof A with 80 Nm).

Fresh concrete composite systems with adhesive layer

- Lay the fresh concrete bonded waterproofing membrane in accordance with the specifications of the membrane manufacturer and fasten it to the formwork.
- Marking of the penetration, bolts and external dimensions of the fixed flange on the fresh concrete bonded waterproofing membrane.

- Use a punch to create the holes for the bolts (M12 = 16 mm, M20 = 24 mm).
- Attach the first EPDM packing* to the fixed flange and attach the fixed flange to the formwork with 20 Nm.
- Concreting of the component and stripping after the concrete has cured.
- Place the second EPDM packing on the loose flange and screw the loose flange to the fixed flange. Tighten the nuts several times crosswise. Torques must be carried out according to the specifications of the membrane manufacturer or the specifications of the respective test report (SikaProof A+, SikaProof P, Preprufe 160R-300R and Preprufe 800PA with 80 Nm).

Instructions

When cutting the fresh concrete bonded waterproofing membrane, care must be taken to ensure that its surface is not damaged.

Important: The fresh concrete bonded waterproofing membrane must not have any kinks, folds, bumps, sticky points or similar in the area around the fixed and loose flange.

* EPDM packings for fresh concrete bonded waterproofing membrane are available as accessories

Torque reference values of the track manufacturers or DIN 18195/DIN 18533 for clamping the loose flanges

Type of sealing membrane or thick coating	Torques for M 12 (Nm)	Torques for M 20 (Nm)
When using DOYMA additive layers Curaflex®1775 for sealing membranes	30	80
For KMB (plastic modified thick coatings) in connection with DOYMA accessories Curaflex®1776	30	100
Bare bitumen membranes according to DIN 52129-R 500	12*	50*
PIB according to DIN 18533-2:2017-06, table 3 line 2	12*	50*
Bitumen and polymer bitumen membranes according to DIN 18533-2:2017-06, Table 1, with polyester fleece, KTP or copper tape inlay	15*	65*
Bitumen and polymer bitumen membranes according to DIN 18533-2:2017-06, Table 1, with carrier inlay made of glass fabric or KTP	20*	80*
Bare bitumen membrane DIN 52129 - R 500 N + 1 x Cu [†]	20*	1. Tightening: 100* 2. and 3. Tightening: 80*
Bitumen-compatible plastic and elastomer sheets according to DIN 18533-2: 2017-06, Table 3, excluding line 2	20*	80*
Bare bitumen membrane DIN 52129 - R 500 N + 2 x Cu [†]	30*	1. Tightening: 120* 2. Tightening: 100* 3. Tightening: 80*
Plastic or elastomer sheets according to DIN 18533-2: 2015-12, Table 3, loosely laid FLK according to ETAG 005	30*	100*
Elastomer clamp joint tapes - with smooth clamping surface - with ribbed clamping surface with addition of uncured raw rubber, 100 mm wide not older than 90 days	40* -	165* 165*

* Torques from DIN 18195-9/DIN 18533-1

- Curaflex® 7005
- Curaflex® 7005/T
- Curaflex® 7006
- Curaflex® 7006/T

Optional accessories

When using very thin or hard sealing membranes



Curaflex® 1775 additive layers
Additive layers consist of 2 pieces
3 mm thick EPDM blanks, which are
matched to the dimensions and bolt hole
circles of the selected fixed/loose flange
construction.

With split version (Curaflex® 7005/T and 7006/T)

Sika Adhesion Cleaner-1
(Curaflex® 1754)
Activator and cleaner of metallic sub-
strates for better adhesion of the Sikaflex-
11 FC+ sealing compound.

Sika Primer-3 N Primer
(Curaflex® 1755)
Priming of concrete to improve the
adhesion of Sikaflex-11 FC+.

Sikaflex-11 FC+
(Curaflex® 1756)
Elastic sealing compound with excellent
strength values.
Motion absorption of approx. 10 %.
Fast setting, permanently elastic. Excel-
lent resistance to weathering and aging.
Resistant to aqueous cleaning agents,
seawater, lime water, weak acids and
alkalis as well as public sewage.

DOYMA products are continuously being further developed. Technical changes will be performed without prior notice.
25 year warranty on all DOYMA products. **More information at www.doyma.com**

DOYMA GmbH & Co

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