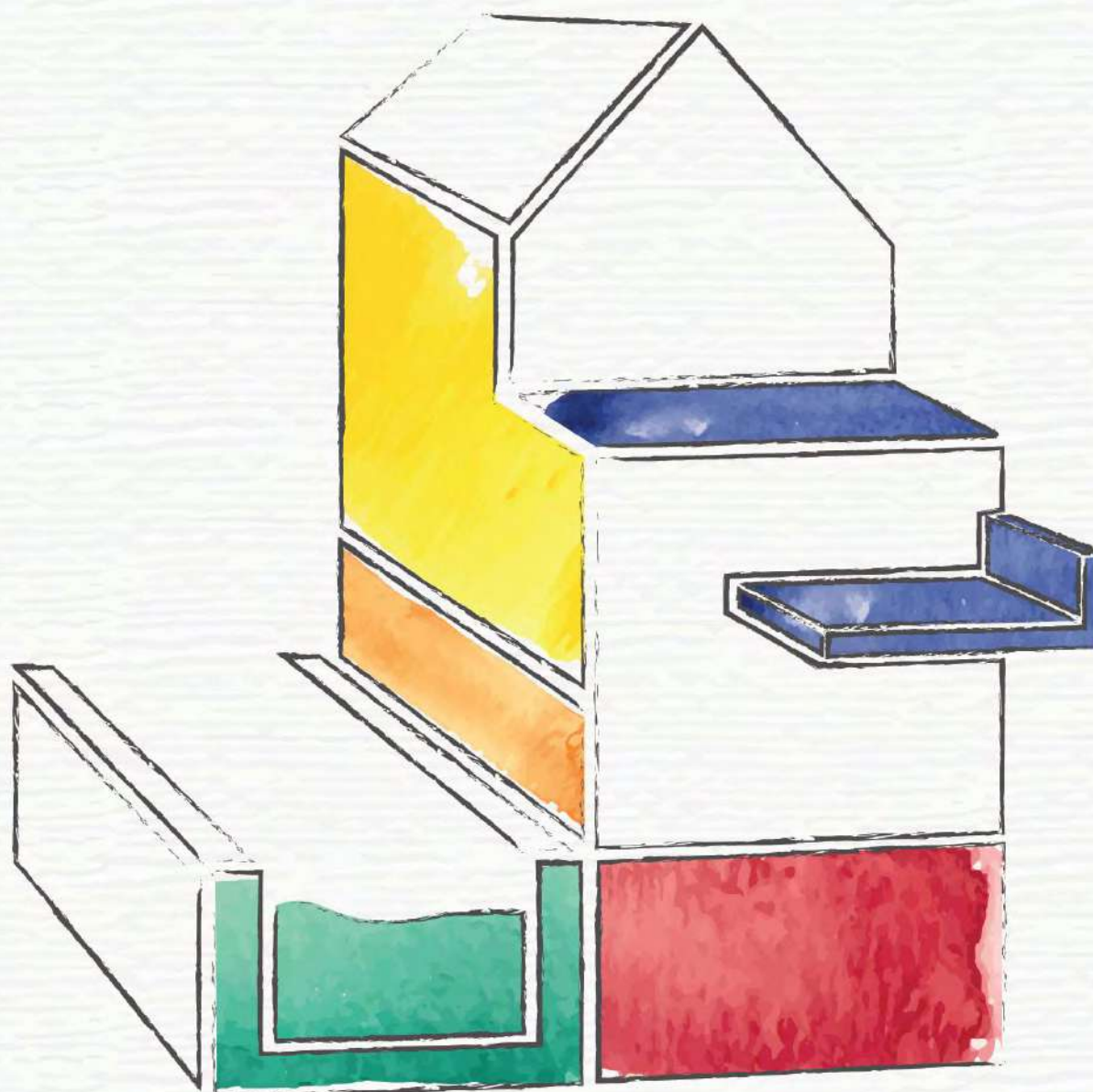


# MANUALETTO

*VOLTECO HANDBOOK*





## PREPARATION

*IT* Preparazione *FR* Préparation *DE* Vorbereitung *ES* Preparación  
*HR* Priprema *SQ* Përgatitja *SL* Priprava *RO* Pregătire *RU* Подготовка  
*NL* Voorbereiding *UK* Priprava *CZ* Příprava *HU* Előkészület  
*PL* Przygotowanie *EL* Προετοιμασία *TR* Hazırlık *AR* الإعداد *CN* 制备



## APPLICATION

*IT* Applicazione *FR* Application *DE* Anwendung *ES* Aplicación  
*HR* Nanošenje *SQ* Aplikimi *SL* Uporaba *RO* Aplicare *RU* Применение  
*NL* Aanbrenging *UK* Aplikácia *CZ* Aplikace *HU* Alkalmazás *PL* Aplikacja  
*EL* Εφαρμογή *TR* Uygulama *AR* التطبيق *CN* 涂用



## CHECKING

*IT* Controllo *FR* Contrôle *DE* Überprüfung *ES* Control *HR* Kontrola  
*SQ* Kontrolli *SL* Nadzor *RO* Control *RU* Контроль *NL* Controle *UK*  
 Kontrola *CZ* Kontrola *HU* Ellenőrzés *PL* Kontrola *EL* Έλεγχος  
*TR* Kontrol *AR* التحكم *CN* 检查



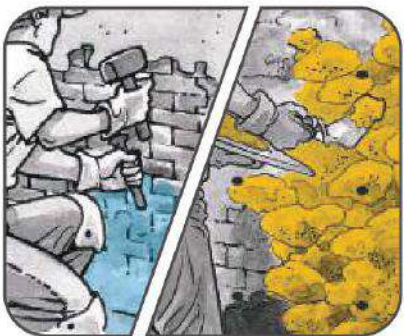
## SEQUENCE

*IT* Sequenza *FR* Séquence *DE* Abfolge *ES* Secuencia *HR* Redoslijed  
*SQ* Sekuenca *SL* Zaporedje *RO* Secvență *RU* Последовательность  
*NL* Reeks *UK* Postup *CZ* Postup *HU* Folyamat *PL* Kolejność *EL* Ακολουθία  
*TR* Sıra *AR* التسلسل *CN* 顺序

$$\text{Icon} = 6\sim 6,5 \text{ kg/m}^2 \times \text{Icon} \leq 0,5 \text{ cm}$$

## CONSUMPTION AND YIELD

*IT* Consumo e resa *FR* Consommation et rendement *DE* Verbrauch und  
 Ergiebigkeit *ES* Consumo y rendimiento *HR* Potrošnja i izdašnost *SQ*  
 Konsumi dhe prodhimi *SL* Poraba in učinek *RO* Consum și randament  
*RU* Потребление и рентабельность *NL* Verbruik en resultaat  
*UK* Spotreba a výťažnosť *CZ* Spotřeba a výtěžnost *HU* Fogyasztás és  
 teljesítmény *PL* Zużycie i wydajność *EL* Κατανάλωση και απόδοση  
*TR* Sarfiyat ve randıman *AR* الاستهلاك والجدوى *CN* 消耗和收益



## PROBLEM/SOLUTION

*IT* Problema/Soluzione *FR* Problème/Solution *DE* Problem/Lösung  
*ES* Problema/Solución *HR* Problem/Rješenje *SQ* Problemi/Zgjidhja  
*SL* Težava/Rešitev *RO* Problemă/Soluție *RU* Проблема/Решение  
*NL* Probleem/Oplossing *UK* Problém/Riešenie *CZ* Problém/Rěšení  
*HU* Probléma/Megoldás *PL* Problem/Rozwiązanie *EL* Πρόβλημα/Λύση  
*TR* Sorun/Çözüm *AR* الحل/المشكلة *CN* 问题/解决方案

Legend

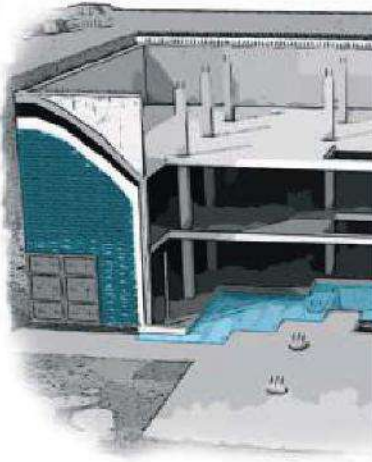
ERS JOINTS COV

NAGE

NG



## NEW CONSTRUCTION



### HORIZONTAL WATERPROOFING

RAFT FOUNDATION pg. 10

CONSTRUCTION JOINTS SEALING pg. 12

### VERTICAL WATERPROOFING

PILE HEADS SEALING pg. 13

STRUCTURAL CRACK INDUCER pg. 14

RETAINING WALLS WATERPROOFING pg. 15

## MIXED STRUCTURES SUBJECTED TO NEGATIVE WATER PRESSURE



### SURFACE WATERPROOFING

VERTICAL WATERPROOFING pg. 20

HORIZONTAL WATERPROOFING pg. 22

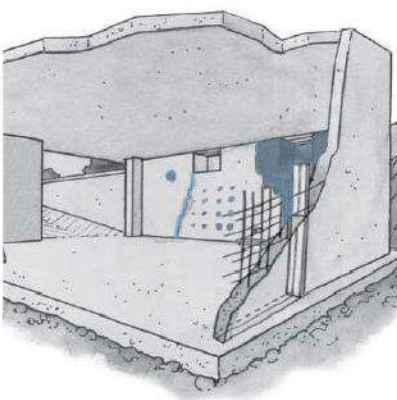
### SEALING

SEALING OF CORNERS AND JOINTS pg. 24

### STRUCTURE WATERPROOFING

FLEXIBLE WATERPROOFING pg. 26

## CONCRETE STRUCTURES SUBJECTED TO NEGATIVE WATER PRESSURE



### SEALING

PRESSURIZED WATER LEAKAGES pg. 30

FORMWORKS SPARE PARTS pg. 31

GRAVEL NESTS pg. 33

CRACKS AND JOINTS pg. 34

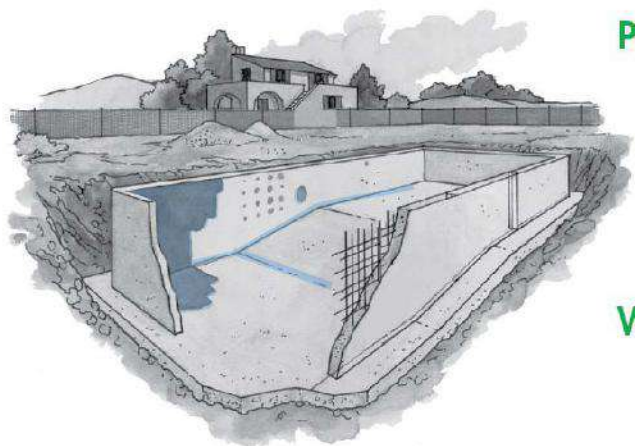
### WATERPROOFING

FLEXIBLE WATERPROOFING pg. 35

WATERPROOFING WITH CRYSTALLIZATION pg. 36



## POOLS AND TANKS



### PRELIMINARY OPERATIONS AND SEALING

LIGHTS AND PENETRATIONS SEALING	pg. 38
POST-APPLICATION SEALING	pg. 38
CONSTRUCTION AND MOVEMENT JOINTS SEALING	pg. 40

### WATERPROOFING AND FINISHING

FLEXIBLE WATERPROOFING	pg. 40
PREPARATION OF SUPPORT	pg. 42
DECORATIVE FINISHING	pg. 43

FOCUS



## SPA & WELLNESS CENTER

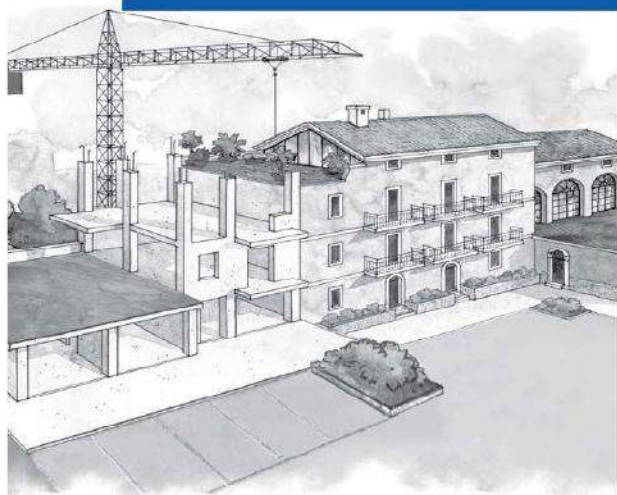


### INTERNAL AREAS WATERPROOFING

PRELIMINARY OPERATIONS	pg. 44
JOINTS COVERS / PROFILES	pg. 46
UNDER TILING WATERPROOFING	pg. 47



## TERRACES, BALCONIES AND FLAT ROOFS



### TERRACES WATERPROOFING

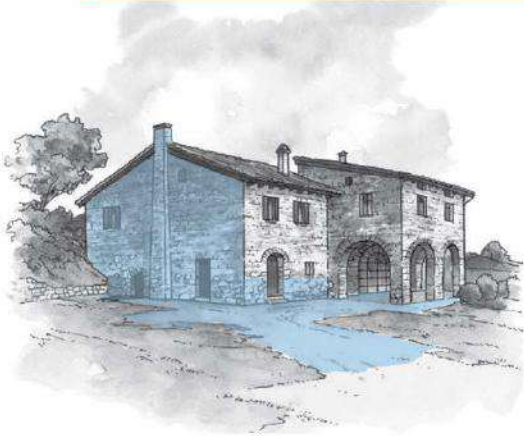
PRELIMINARY OPERATIONS	pg. 50
CORNERS JOINTS COVERS	pg. 52
DRAINING PROFILES	pg. 53
FLEXIBLE WATERPROOFING	pg. 54

### BALCONIES WATERPROOFING

PRELIMINARY OPERATIONS/CORNERS JOINTS COVERS	pg. 56
DETAILS FOR DOORS / DRAINAGE	pg. 57
FLEXIBLE WATERPROOFING	pg. 58
ELASTIC MESH	pg. 58



## TREATMENT OF DAMP WALLS



### CHEMICAL BARRIER

PRELIMINARY OPERATIONS	pg. 62
HYDROPHOBIC BARRIER	pg. 63

### DEHUMIDIFICATION CYCLE

WATERPROOF SKIRTING	pg. 64
ROUGH COAT	pg. 66
ANTI-CONDENSATION PLASTER	pg. 66
SKIM COAT	pg. 68



## FACADES PROTECTION (CONCRETE AND MASONRY)



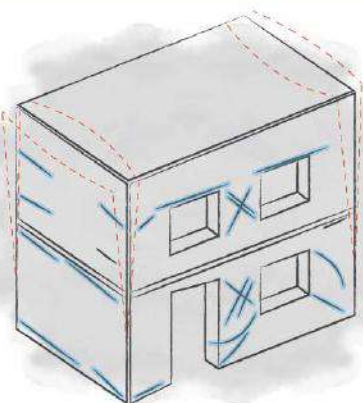
### REPAIR

CORROSION TREATMENT	pg. 70
STRUCTURAL REPAIR	pg. 71
STRUCTURAL REPAIR AND SMOOTHING	pg. 72
SEMI-STRUCTURAL REPAIR	pg. 73
LOCALIZED REPAIR	pg. 74

### PROTECTION AND PAINTING

ANTICARBONATION PROTECTION	pg. 75
FINISHING	pg. 77

## STRUCTURAL REINFORCEMENT AND SEISMIC IMPROVEMENT



PREPARATION	pg. 81
-------------	--------

### TANKING SYSTEM

LOW THICKNESS TANKING SYSTEM	pg. 82
------------------------------	--------



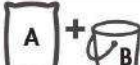







### BEAMS AND PILLARS

CORROSION TREATMENT	pg. 84
REINFORCEMENT OF PILLARS AND BEAMS	pg. 85










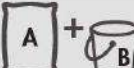


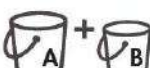







### MIXED FLOORS

PROTECTION OF WOODEN SURFACES	pg. 87
-------------------------------	--------

# Index

	<b>AKTI-VO 201</b>	pg. 11 - 13 - 15 - 22 - 30 - 32 - 38 - 82
	<b>AMPHIBIA 3000 GRIP</b>	pg. 10 - 13 - 22 - 82
	<b>AMPHIBIA PRESSURE LINE / CORNER</b>	pg. 15 - 16
	<b>AQUASCUD JOIN</b>	pg. 52 - 57
	<b>AQUASCUD JOIN ANGULAR</b>	pg. 52
	<b>AQUASCUD LINE</b>	pg. 53
	<b>AQUASCUD SYSTEM 420</b>	pg. 52 - 54
	<b>BI FIX 300</b>	pg. 83 - 85
	<b>BI FLEX SYSTEM</b>	pg. 24 - 34 - 40
	<b>BI MASTIC</b>	pg. 11 - 15 - 22 - 57
	<b>BI MORTAR CONCRETE SEAL</b>	pg. 36
	<b>BI MORTAR PLASTER SEAL</b>	pg. 20 - 64
	<b>BI MORTAR RASO SEAL</b>	pg. 42
	<b>BI MORTAR SL</b>	pg. 23
	<b>BREAK</b>	pg. 16
	<b>CALIBRO NHL</b>	pg. 67
	<b>CALIBRO PLUS EVAPORATION</b>	pg. 66
	<b>CP0</b>	pg. 73
	<b>CP1</b>	pg. 75 - 76 - 71



	<b>CRYSTAL POOL</b>	pg. 43
	<b>FIBRO 20</b>	pg. 74
	<b>FIBRO HFR / FIBRO STEEL</b>	pg. 81 - 83 - 85 - 87
	<b>FIBROeRASO</b>	pg. 45 - 72
	<b>FIBROMIX 40</b>	pg. 71
	<b>FLEXOMIX 30</b>	pg. 50
	<b>FLEXONET / XNET</b>	pg. 58 - 75 - 76
	<b>GARVO</b>	pg. 46 - 53
	<b>I-PLUG / TAP3</b>	pg. 30
	<b>PLASTIVO 180</b>	pg. 17 - 26 - 35 - 40 - 42 - 56 - 58 - 87
	<b>PROFIX 20</b>	pg. 75
	<b>PROFIX 30</b>	pg. 45 - 51 - 75
	<b>PROFIX 60</b>	pg. 42
	<b>REVOMAT</b>	pg. 21
	<b>SANOFER</b>	pg. 70 - 84
	<b>SPIDY 15</b>	pg. 16 - 32 - 39 - 64
	<b>STEEL CONNETTORS</b>	pg. 21 - 23 - 83 - 85
	<b>TRIPLEZERO</b>	pg. 63
	<b>X-LIME</b>	pg. 68
	<b>WT 102</b>	pg. 12 - 16 - 22



# CONTACT US

WE ARE AVAILABLE  
FOR ALL YOUR NEEDS

Chat

Active chat on  
our website



Find us on Whatsapp  
+39 346 586 3400



Write to us!  
[export@volteco.it](mailto:export@volteco.it)



Download  
the digital  
version

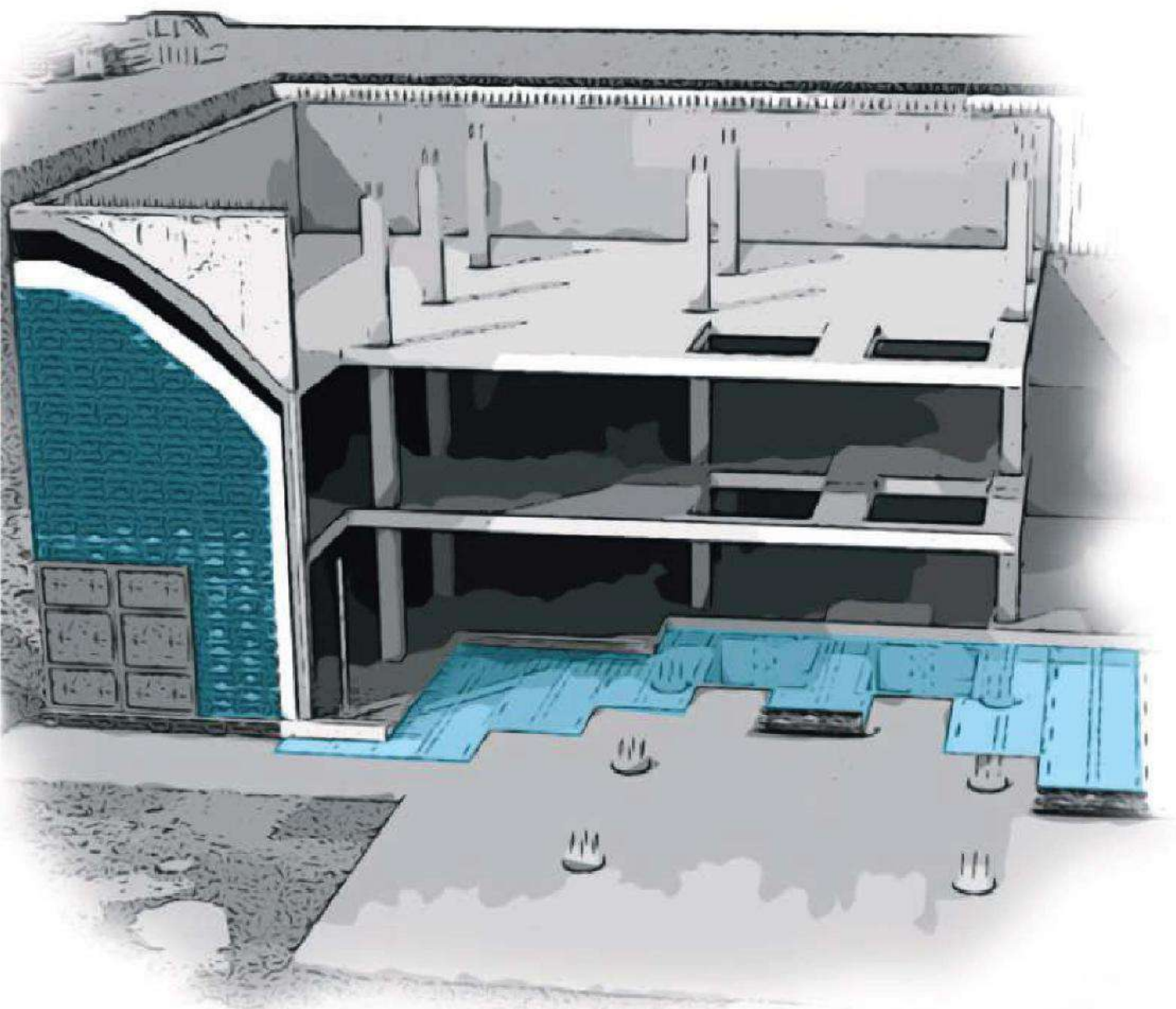


# NEW CONSTRUCTIONS



pg.9

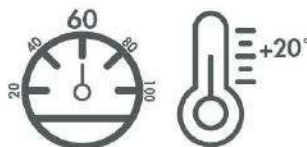
WATERPROOFING OF BASEMENTS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



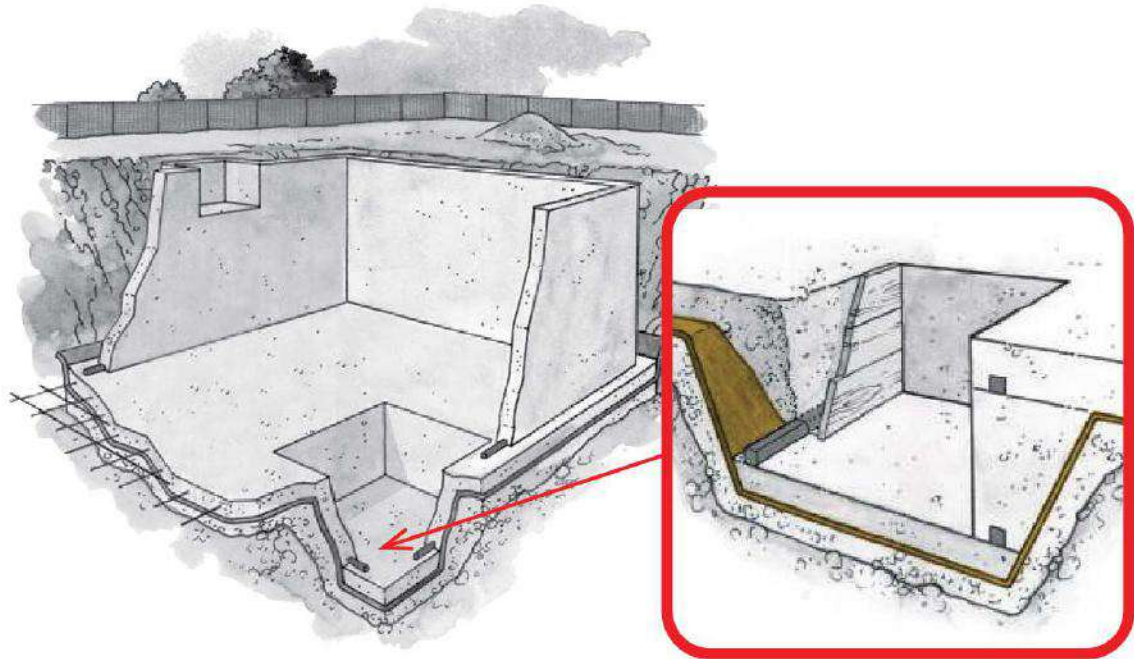
## APPLICATION CONDITIONS

PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%

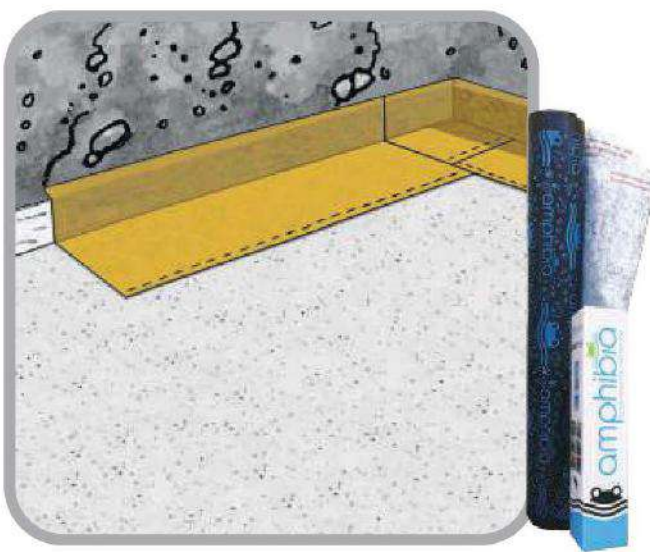




# RAFT FOUNDATION



[1]



## AMPHIBIA 3000 GRIP

- 180 x 2000 cm
- 90 x 1000 cm
- 180 x 1000

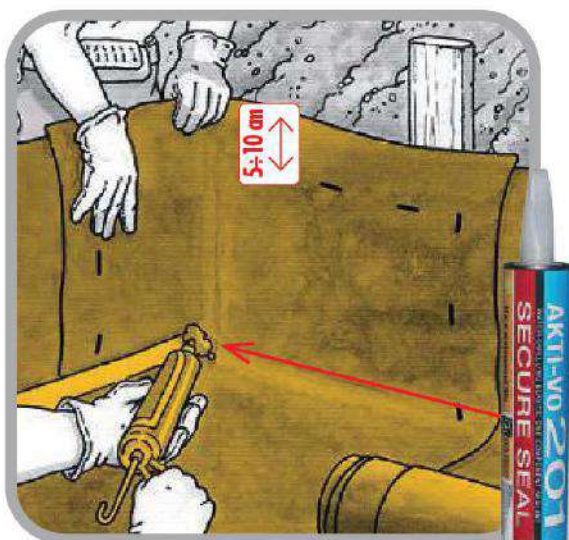





[2]



[3]




 = 10 x 10 mm x 3.2 m

**AKTI-VO 201**

320 cc

[4]




 = ~ 0.9 m/m<sup>2</sup>

**AMPHIBIA SAFETY TAPE**

25 m x h 6 cm

**AND/OR**



 = Ø 5 mm x 20 m

**BI MASTIC**



600 cc



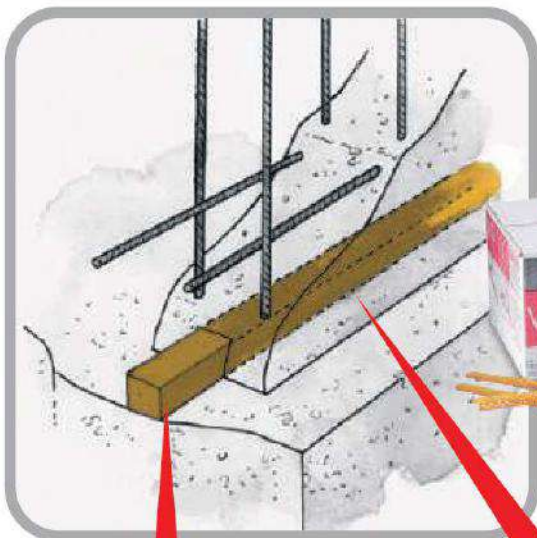


[5]



### CONSTRUCTION JOINTS SEALING

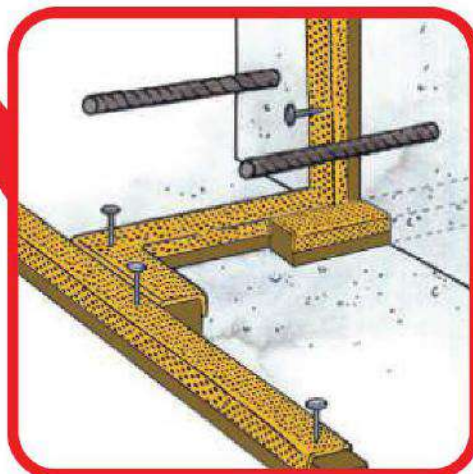
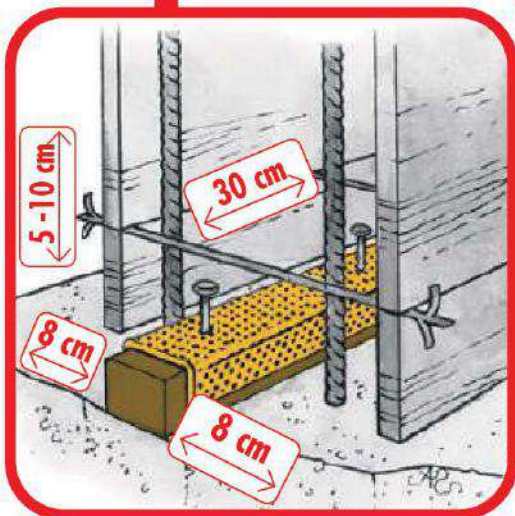
[1]



WT 102

m 30

m 10





# PILE HEADS SEALING

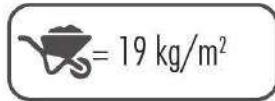
[1]



3' + 3'

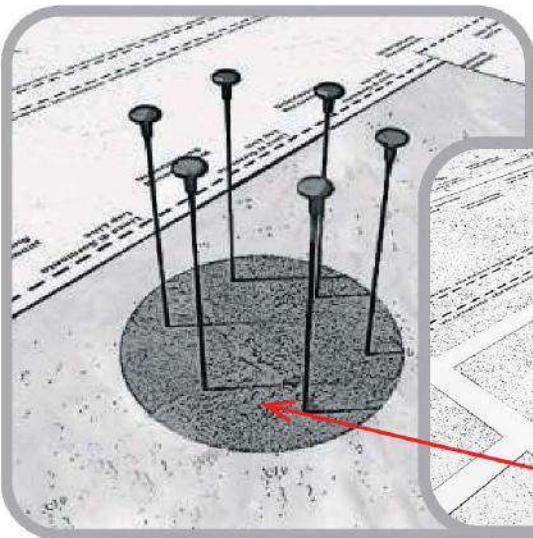


20 kg

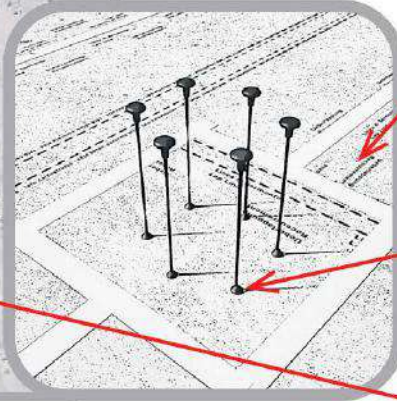


**FLOWMIX 70**

[2]

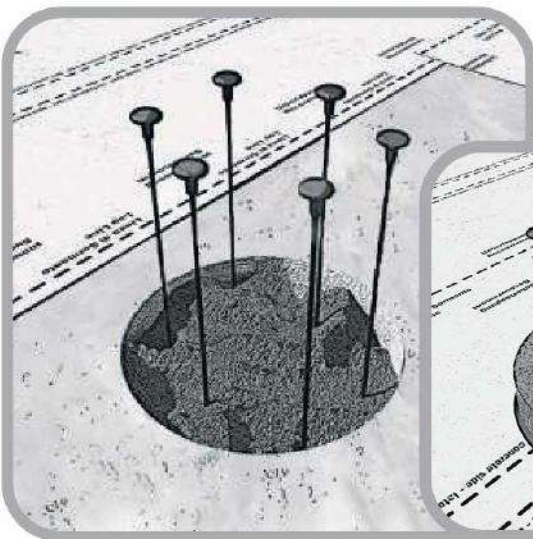


**AMPHIBIA 3000 GRIP**



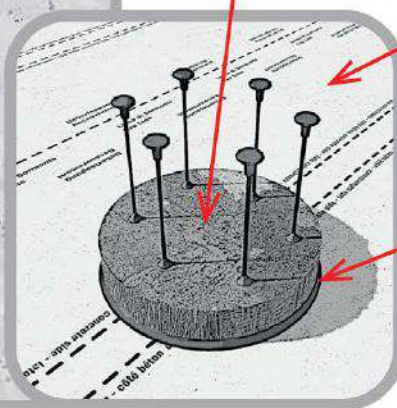
**WT 102**

**FLOWMIX 70**



**FLOWMIX 70**

**AMPHIBIA 3000 GRIP**



**WT 102  
AKTI-VO 201**





# STRUCTURAL CRACK INDUCER

[1]



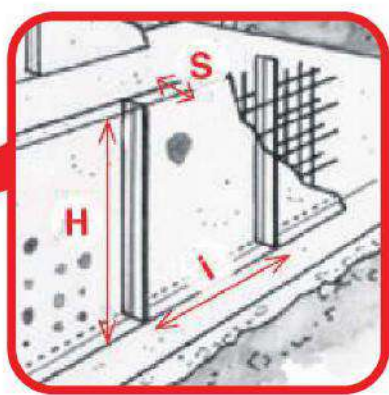
**BREAK**

18,5 X 100 cm - thickness 2 cm

[2]



[3]



ESTIMATED

$$i (m) = \frac{H (m)}{2 \times S (m)}$$





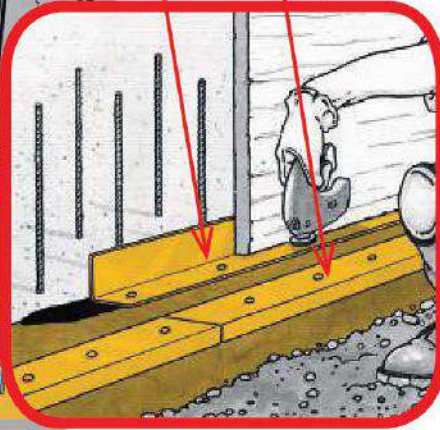
# RETAINING WALLS WATERPROOFING

## PRE-APPLIED INSTALLATION

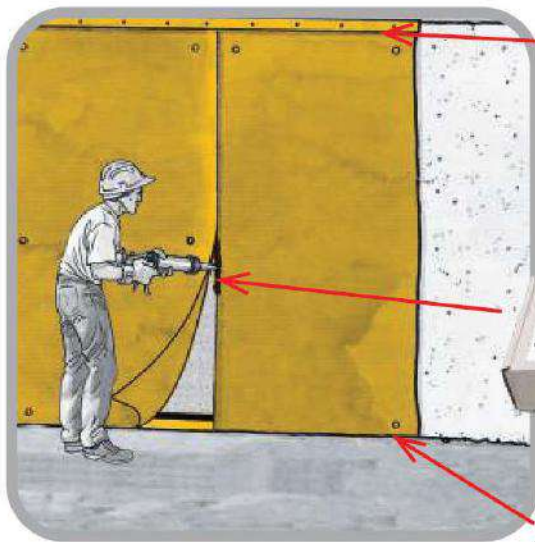
[1]



AMPHIBIA  
PRESSURE CORNER



[2]



AMPHIBIA PRESSURE LINE



$\varnothing$  5 mm x 20 mm



BI MASTIC

600 cc

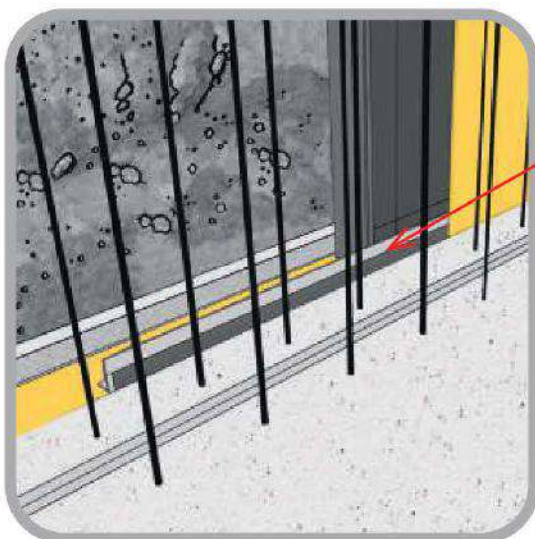


STOPPER + AKTI-VO 201



320 cc

[3]



AMPHIBIA PRESSURE CORNER



+ AKTI-VO 201



320 cc





# A Solution - POST-APPLIED INSTALLATION

[1]



15 kg

= 19 kg/m<sup>2</sup> x 1 cm

SPIDY 15



Mortar cove fillet



Penetrations

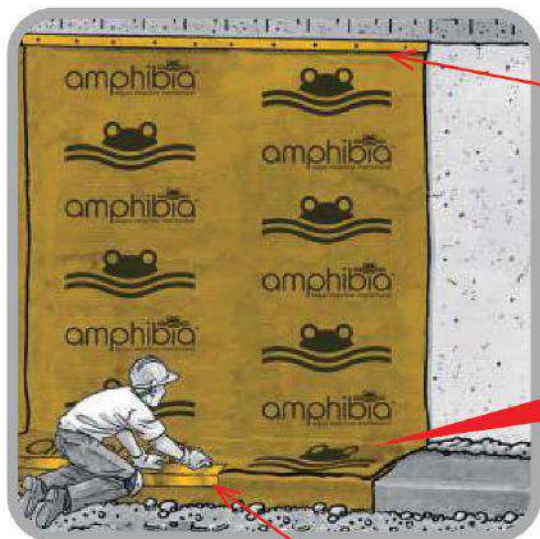


Gravel nest

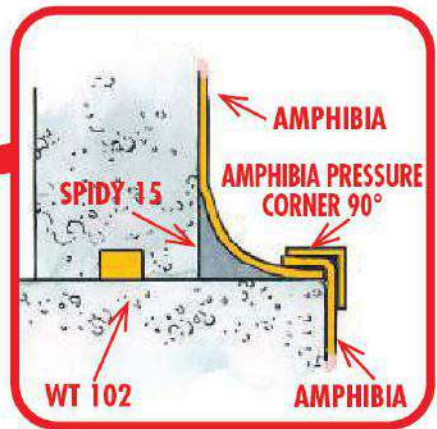


Passing rebar

[2]



AMPHIBIA PRESSURE LINE



AMPHIBIA PRESSURE CORNER







# B Solution - POST-APPLIED INSTALLATION

[1]



3' ~ 5'



15 kg + 5 kg



= 3~3.5 kg/m<sup>2</sup>

**PLASTIVO 180**

[2]



**1<sup>st</sup> layer** 1 mm

**2<sup>nd</sup> layer** 2 h 1 mm





.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

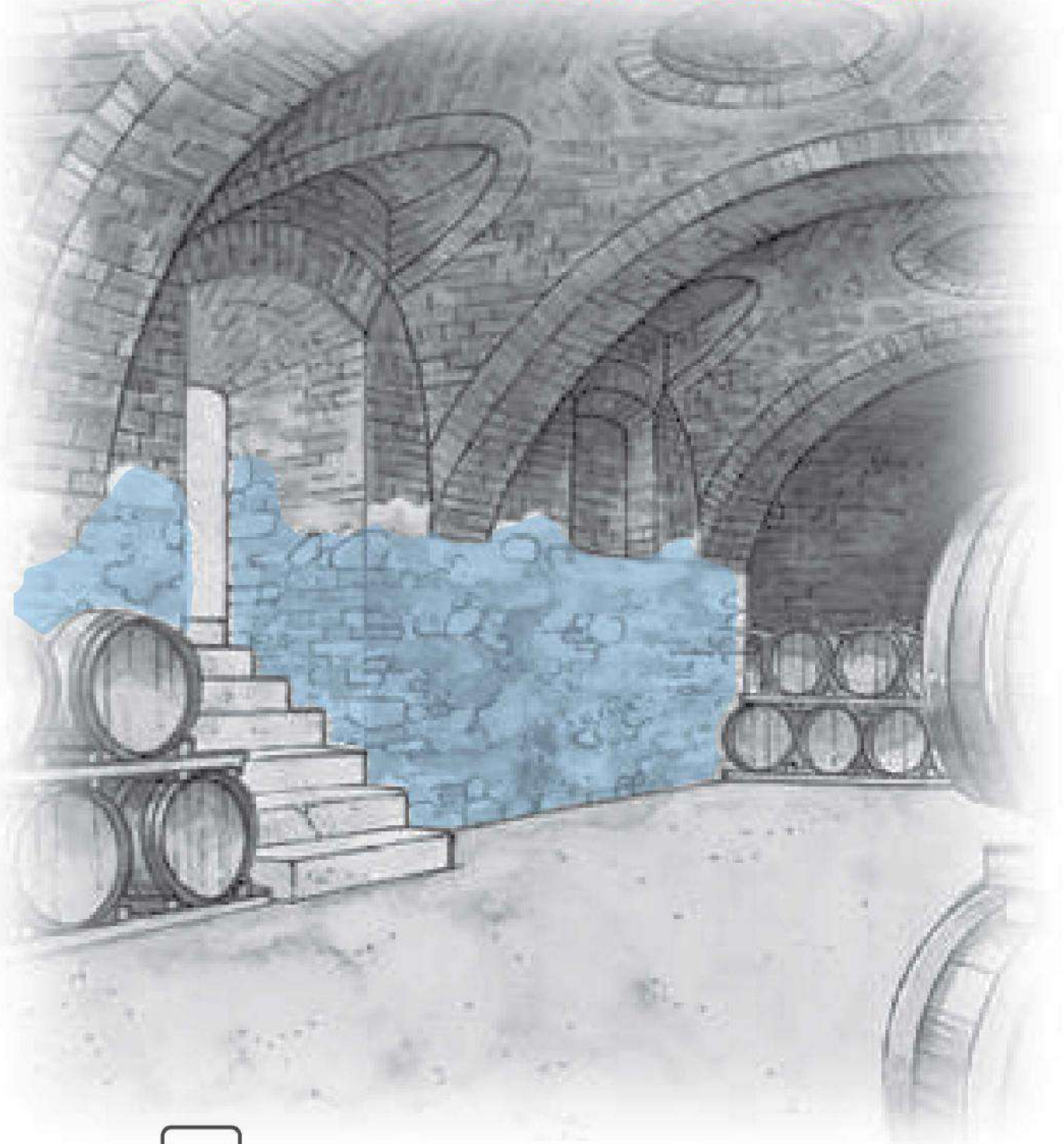


# REINFORCED WATERPROOFING OF MIXED STRUCTURES SUBJECTED TO NEGATIVE WATER PRESSURE



pg.19

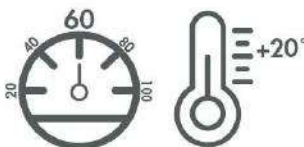
WATERPROOFING OF BASEMENTS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%





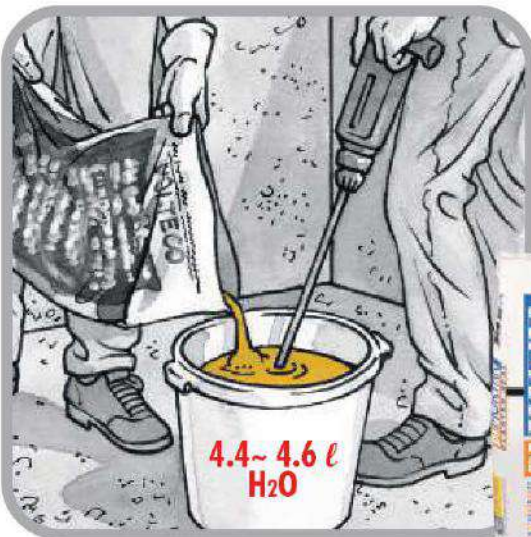
# VERTICAL WATERPROOFING

[1]



Cleaning

[2]



= 18 kg/m<sup>2</sup> x 1 cm

kg 25

**BI MORTAR PLASTER SEAL**

## A Solution - APPLICATION WITHOUT MESH

[3]



1,5 cm





# B Solution - APPLICATION WITH MESH

[1]



1 mt x 30 mt

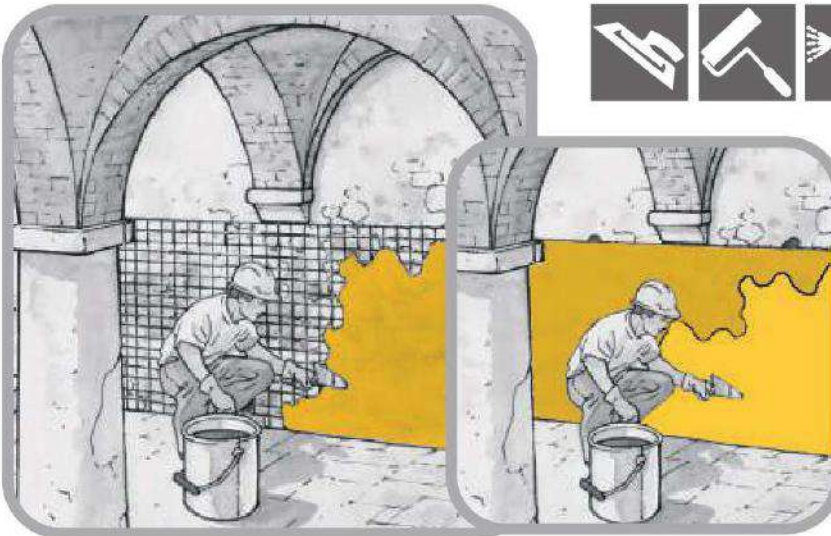


REVOMAT



STEEL CONNECTORS

[2]



www.volteco.com

1<sup>st</sup> layer ⇒ || ← > 1 cm / < 2 cm

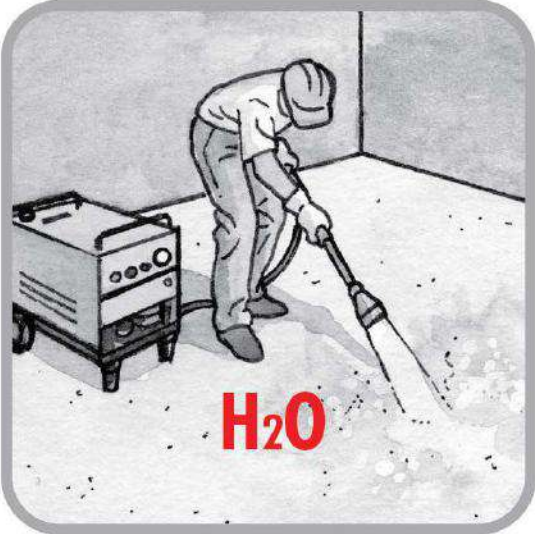
2<sup>nd</sup> layer ⇒ || ← > 1 cm / < 2 cm





# A Solution - HORIZONTAL WATERPROOFING

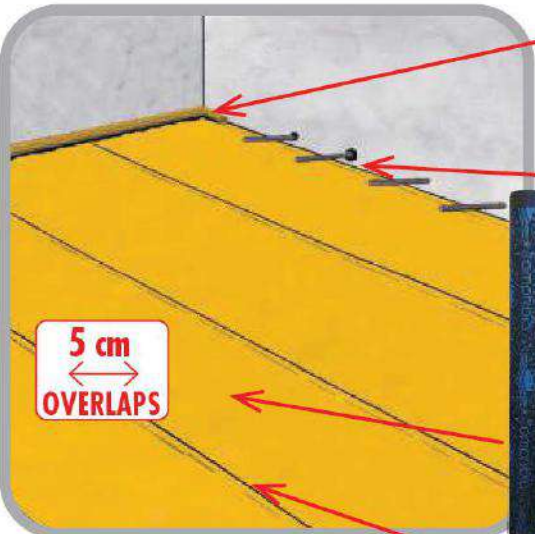
[1]



Cleaning

Sealing construction joints and rebars with WT 102 and AKTI-VO 201

[2]



**WT 102**  
m 30/m 10



= 10 x 10 mm x 3.2 m

**AKTI-VO 201**



320 cc



**AMPHIBIA 3000 GRIP**

UNI EN 13967 180 x 2000 cm / 90 x 1000 cm / 180 x 1000 cm



= Ø 5 mm x 20 mm

**BI MASTIC**

600 cc

[3]



Placing reinforcement mesh





[4]



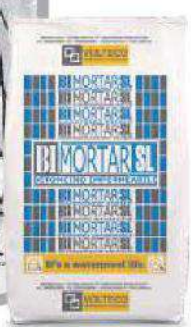
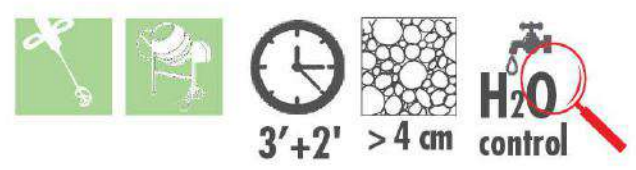
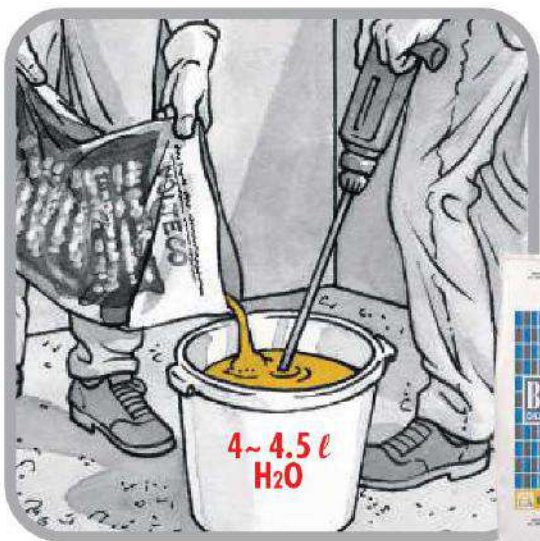
Sealing connectors



STEEL CONNECTORS

**B Solution**  
**HORIZONTAL WATERPROOFING OF SMALL AREAS**

[1]



kg 25



= 17 kg/m<sup>2</sup> x 1 cm

**BI MORTAR SL**

[2]



> 2 cm / < 10 cm





# SEALING OF CORNERS AND JOINTS



BI BOND



BI FLEX H.10 - H.20



Movement joint



Crack



Structural joint


[1]



BI BOND



www.volteco.com

 = 1 kg BI BOND x 1 m BI FLEX (H.20)  
= 0.6 kg BI BOND x 1 m BI FLEX (H.10)



5 kg + 5 kg

BI BOND







[2]

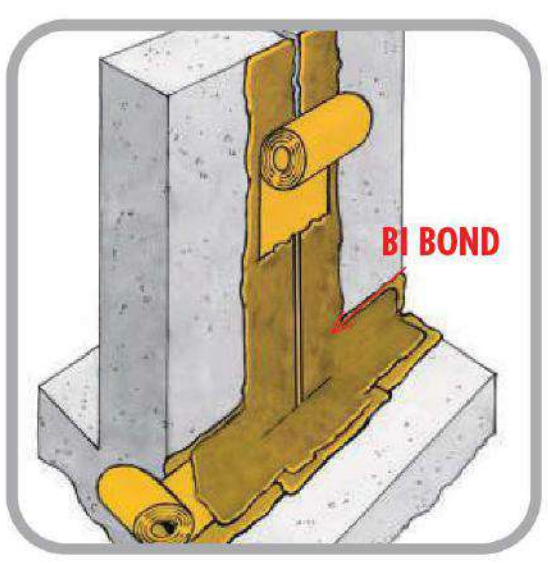


 = 1 kg **BI BOND** x 1 m **BI FLEX (H. 20)**  
 = 0.6 kg **BI BOND** x 1 m **BI FLEX (H.10)**



**BI FLEX H.10 - H.20**

[3]



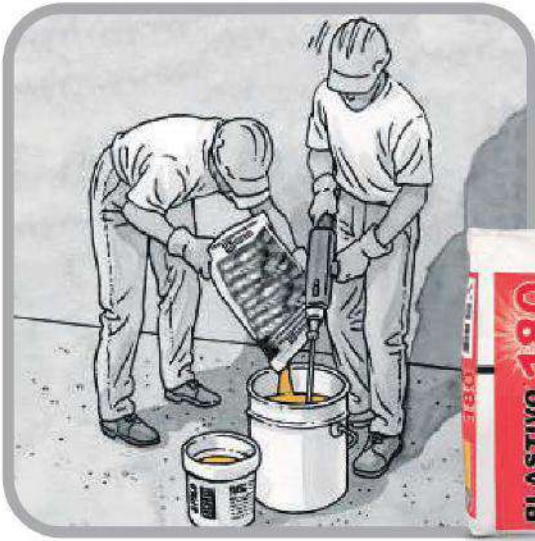
	<b>BI FLEX H.10</b>		<b>BI FLEX H.20</b>	
<b>Thickness</b>	0.5 mm	1 mm	1 mm	1.5 mm
<b>Length</b>	40 m	20 m	20 m	15 m
<b>Width</b>	10 cm		20 cm	
<b>Positive pressure water resistance on open joint (2 cm)</b>	1.5 bar	3 bar	3 bar	> 3 bar
<b>Negative pressure water resistance on open joint (2 cm)</b>	-	0.5 bar	0.5 bar	1 bar
<b>Estimated consumption of BI BOND for each meter BI FLEX</b>	0,6 kg	0,6 kg	1 kg	1 kg





# FLEXIBLE WATERPROOFING

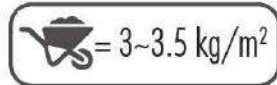
[1]



3' ~ 5'

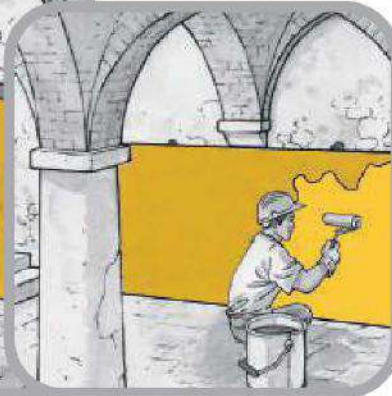


15 kg + 5 kg



PLASTIVO 180

[2]

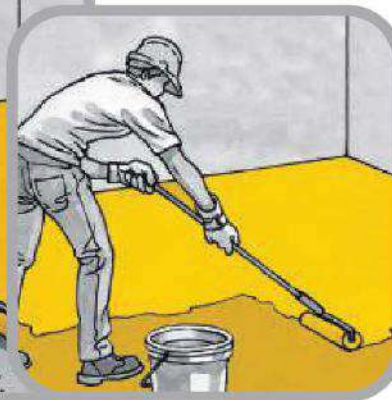


Laying on vertical surfaces

1<sup>st</sup> layer  1 mm

2<sup>nd</sup> layer  2 h  1 mm

[3]



Laying on horizontal surfaces

1<sup>st</sup> layer  1 mm

2<sup>nd</sup> layer  2 h  1 mm





### Vertical waterproofing



1,5 cm



>1/<2 cm



>1/<2 cm



12h



OPTIONAL



pg.XX

"NO CONDENSATION"

### Horizontal waterproofing



+



### Flexible waterproofing



+



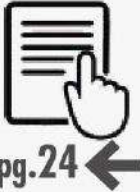
1 mm



2h



1 mm



pg.24



.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

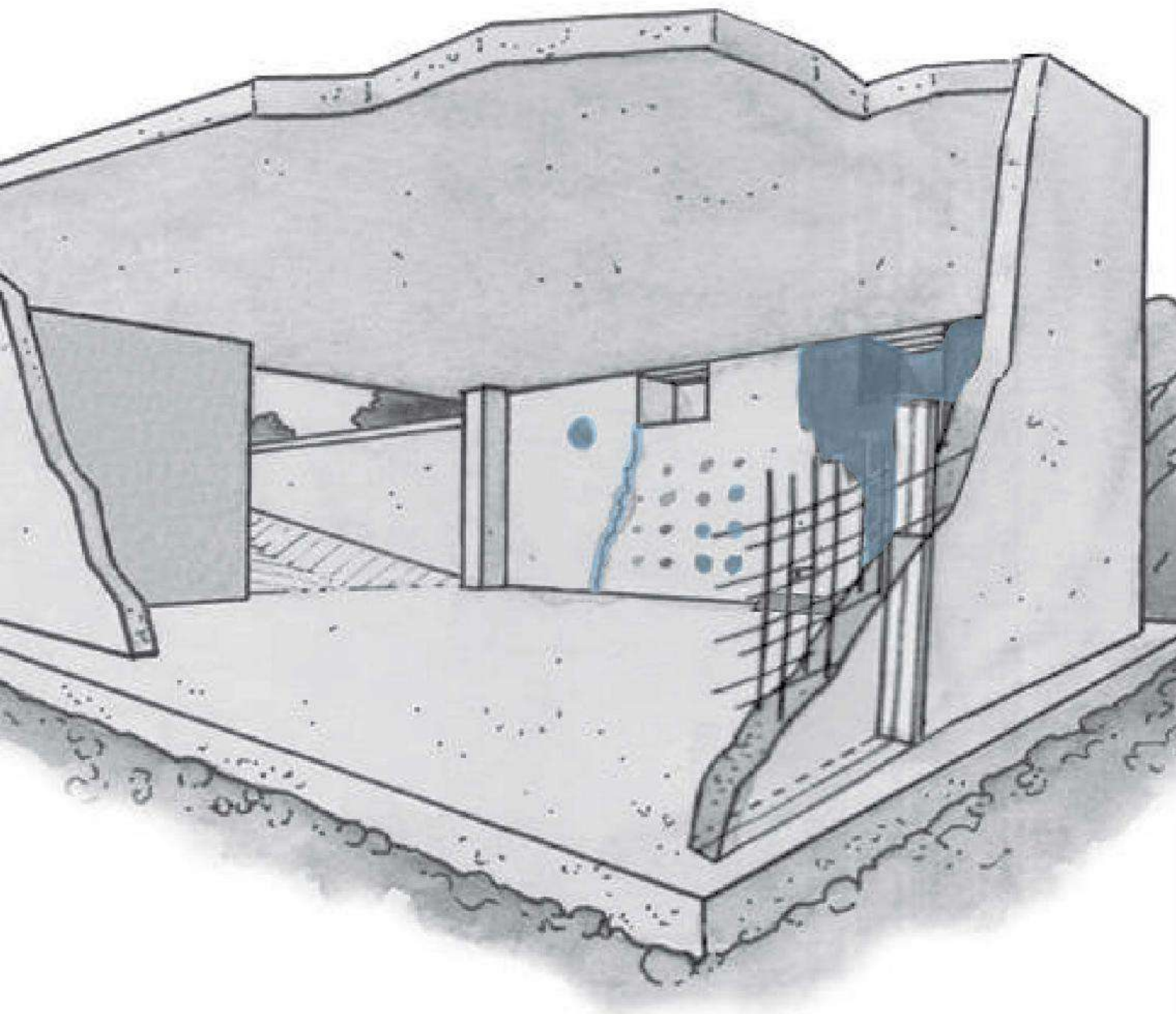


# REPAIR OF CONCRETE STRUCTURES SUBJECT TO NEGATIVE WATER PRESSURE



pg.29

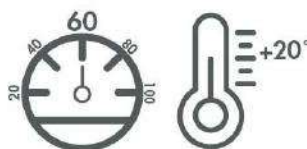
WATERPROOFING OF BASEMENTS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

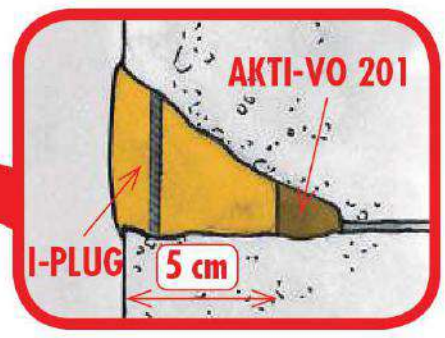
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



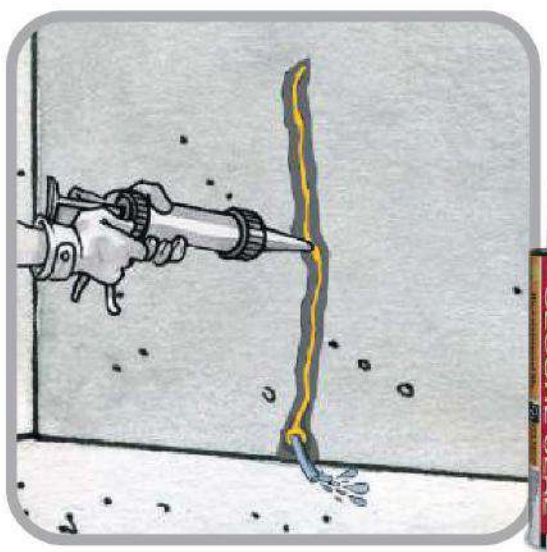


# PRESSURIZED WATER LEAKAGES

[1]



[2]

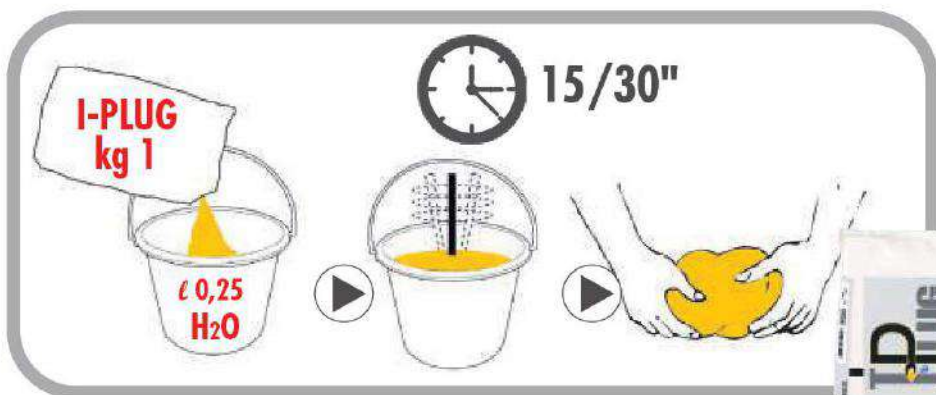


= 10 x 10 mm x 3.2 m

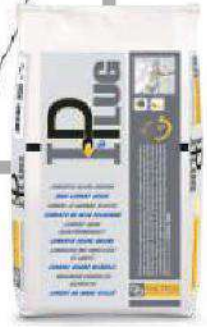
**AKTI-VO 201**

320 cc

[3]



**I-PLUG**



10kg



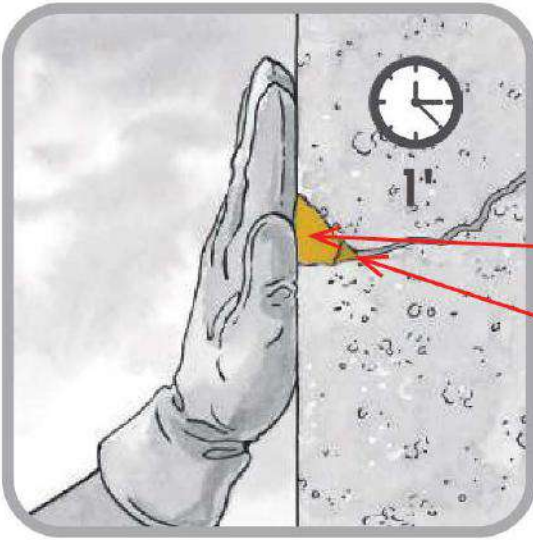
20 kg

**TAP 3**





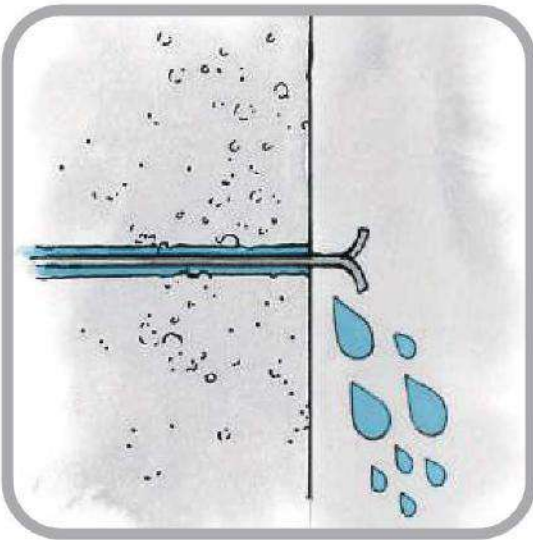
[4]



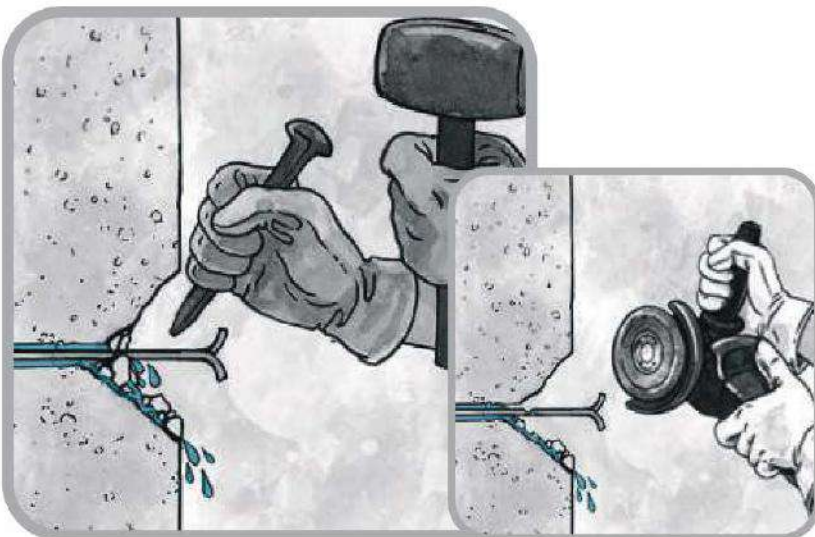
I-PLUG/TAP 3

AKTI-VO 201

**FORMWORKS SPACERS**



[1]





[2]



[3]



AKTI-VO 201



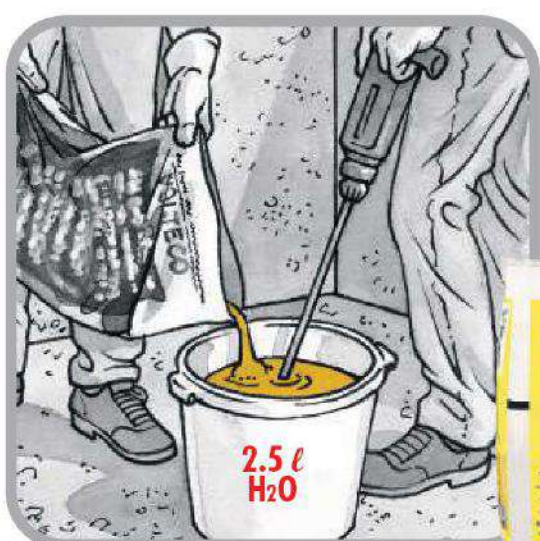
320 cc



= 10 x 10 mm x 3.2 m

AKTI-VO 201

[4]



2.5 l  
H<sub>2</sub>O



15 kg



= 19 kg/m<sup>2</sup> x 1 cm

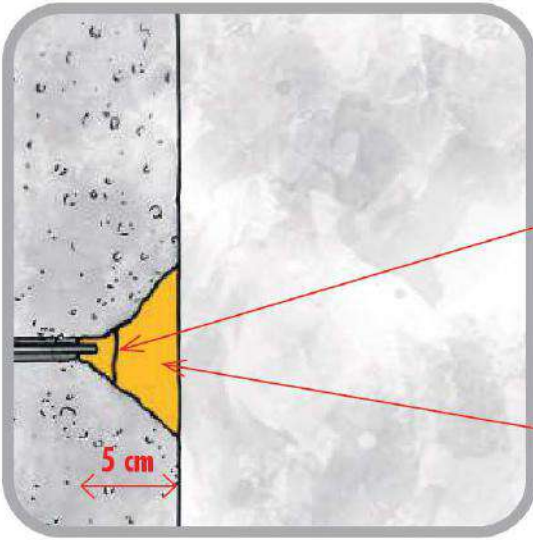
SPIDY 15







[5]

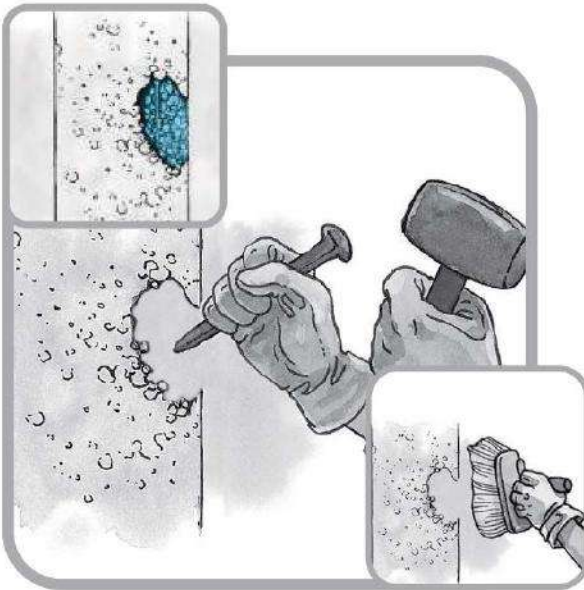


AKTI-VO 201

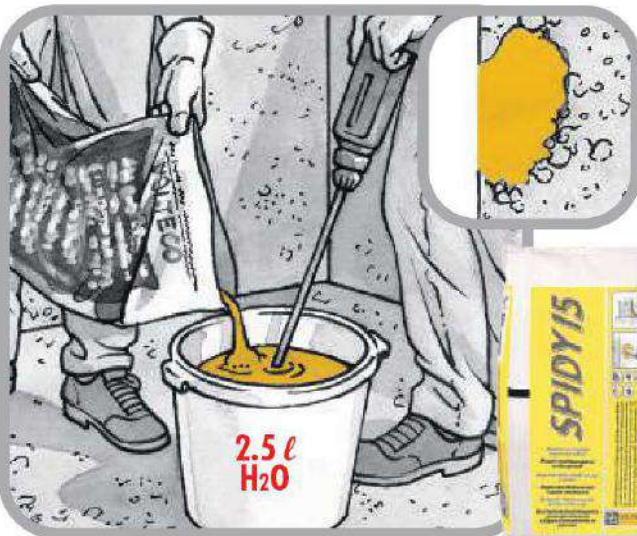
SPIDY 15

**GRAVEL NESTS**

[1]





[2]



3'



15 kg

 = 19 kg/m<sup>2</sup> x  1 cm

SPIDY 15





# CRACKS AND JOINTS



Movement joint



Crack



Structural joint

[1]




BI BOND



www.volteco.com



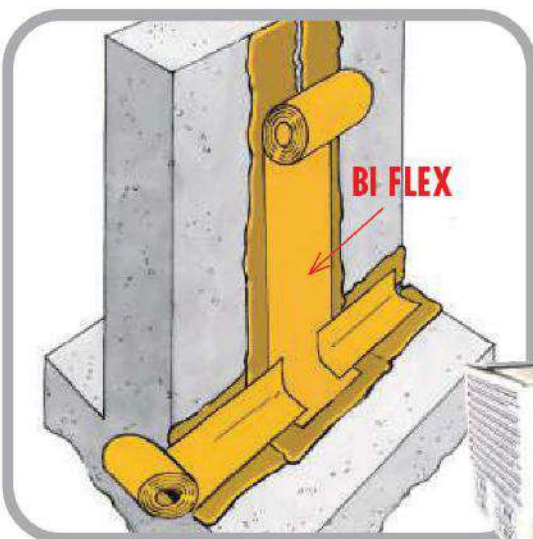
 = 1 kg BI BOND x 1 m BI FLEX (H.20)  
 = 0,6 kg BI BOND x 1 m BI FLEX (H.10)



BI BOND

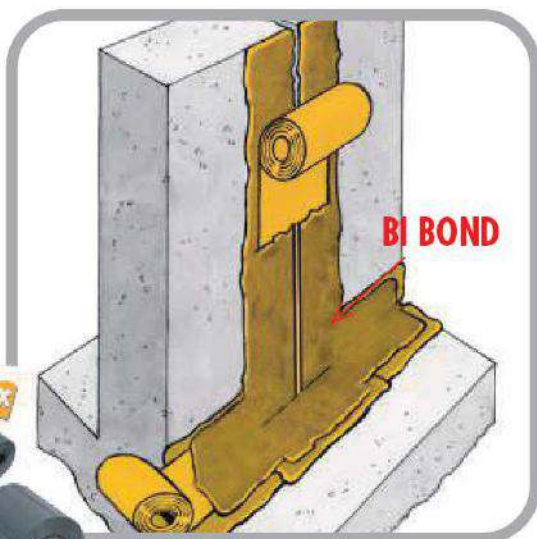
5 kg + 5 kg

[2]



BI FLEX

[3]



BI BOND



BI FLEX H.10 - H.20  
See specification pg. 23





# A Solution - FLEXIBLE WATERPROOFING

[1]



3' ~ 5'



15 kg + 5 kg



= 3-3.5 kg/m<sup>2</sup>

**PLASTIVO 180**

[2]



1<sup>st</sup> layer 1 mm

2<sup>nd</sup> layer 2 h 1 mm



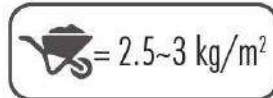


# B Solution - WATERPROOFING WITH CRYSTALLIZATION

[1]

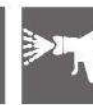


20 kg



**BI MORTAR CONCRETE SEAL**

[2]

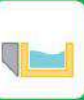
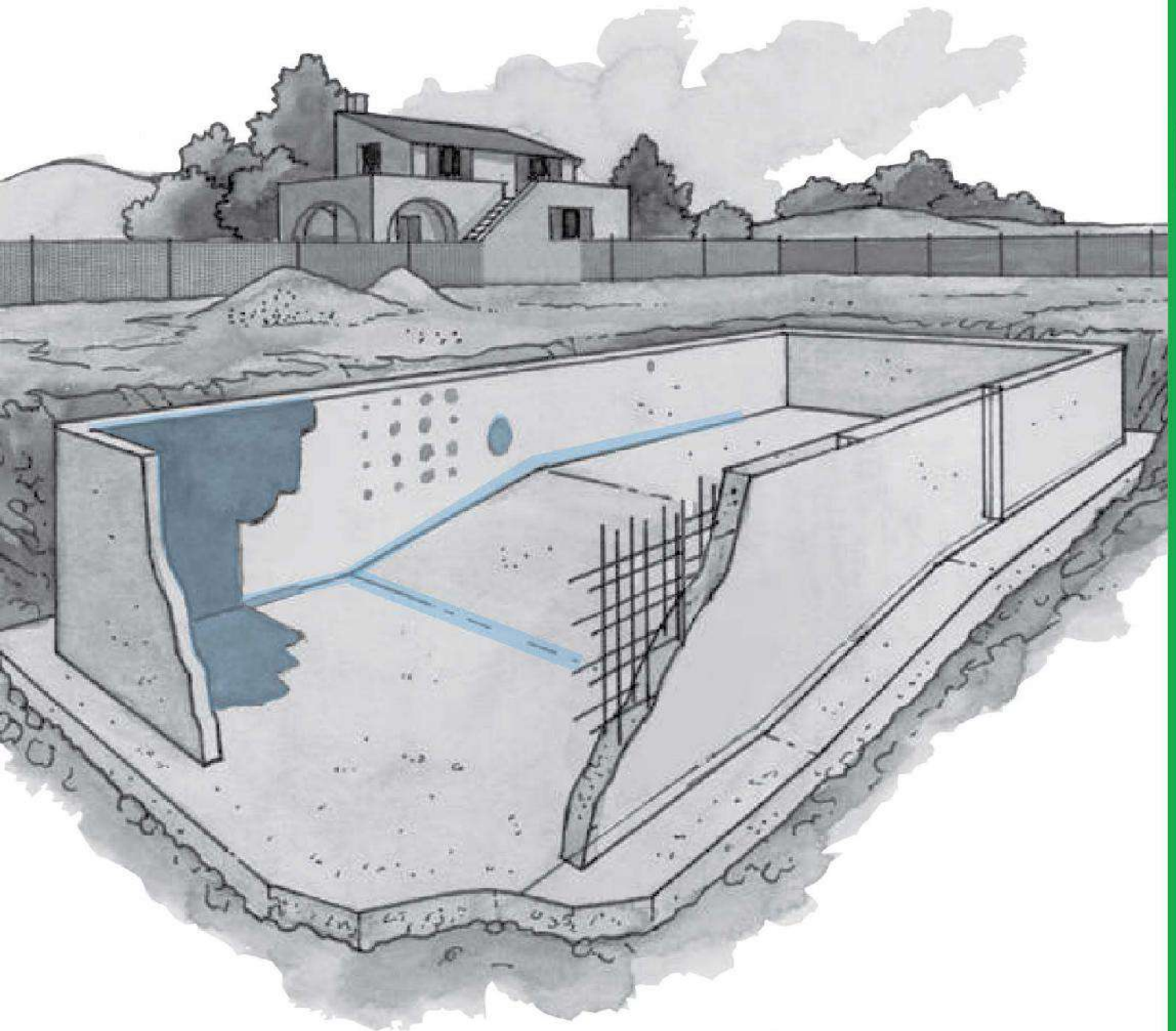


1<sup>st</sup> layer ⇒|← 1 mm

2<sup>nd</sup> layer ⌚ 8 h ⇒|← 1 mm



# POOLS AND TANKS



pg.37

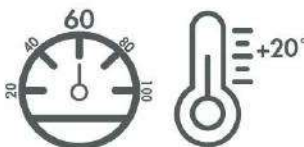
WATERPROOFING OF POOLS AND TANKS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

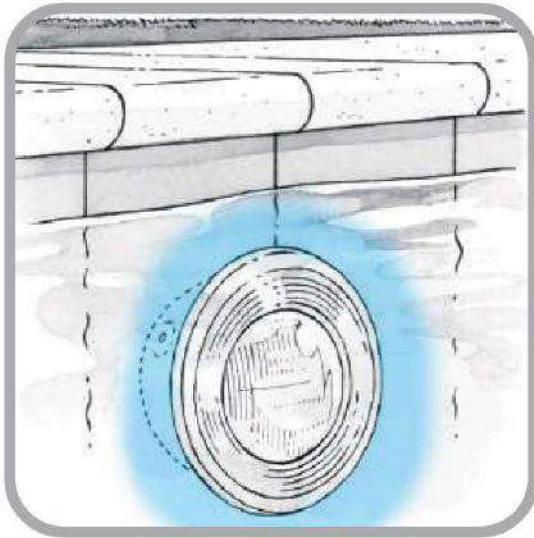
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



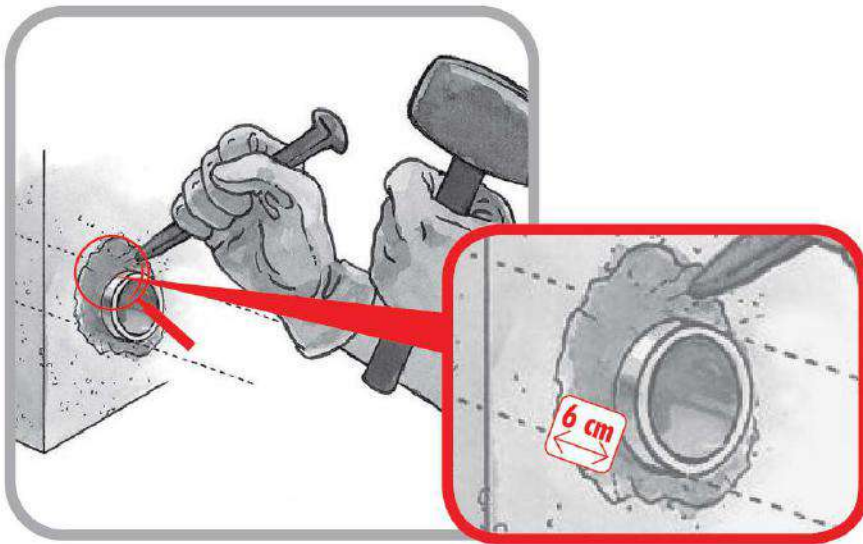
# LIGHTS AND PENETRATIONS SEALING

## POST-APPLICATION SEALING

[1]




[2]



[3]



320 cc

 = 10 x 10 mm x 3.2 m

**AKTI-VO 201**



pg.38



[4]



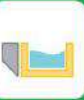
3'



15 kg

$$\text{Wheelbarrow icon} = 19 \text{ kg/m}^2 \times \left| \right| \left| \leftarrow 1 \text{ cm} \right.$$

SPIDY 15

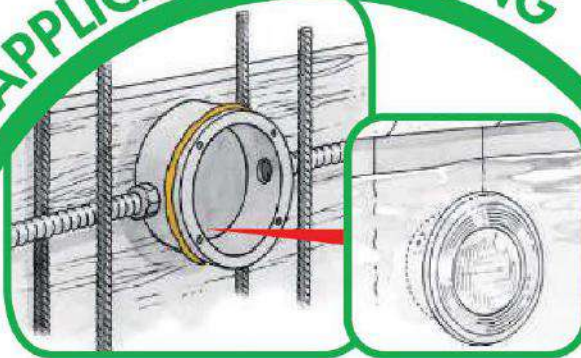


pg.39

[5]



# PRE-APPLICATION SEALING



AKTI-VO 201



# CONSTRUCTION AND MOVEMENT JOINTS SEALING

[1]



www.volteco.com

2'



= 1 kg **BI BOND** x 1 m **BI FLEX (H.20)**

= 0.6 kg **BI BOND** x 1 m **BI FLEX (H.10)**



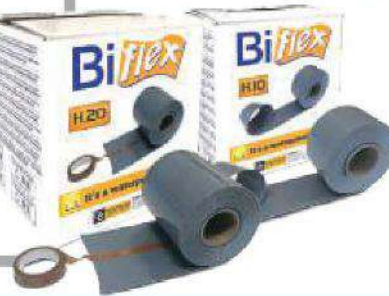
5 kg + 5 kg

**BI BOND**

[2]



**BI FLEX**



**BI FLEX H.10 - H.20**

See specification  
pg. 25

## FLEXIBLE WATERPROOFING

[1]



Cleaning

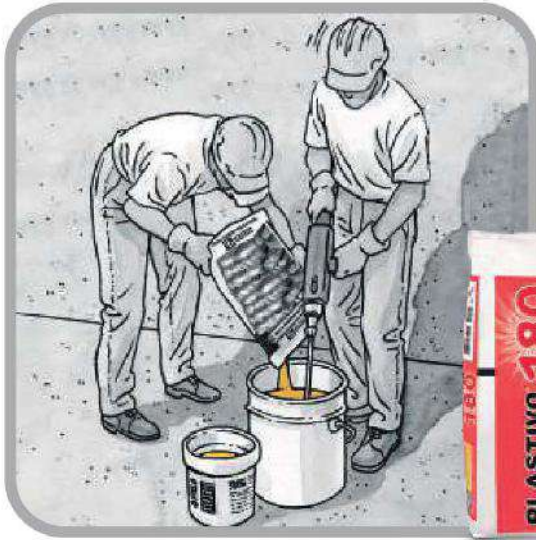


pg.40





[2]



3' ~ 5'

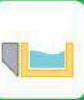


15 kg + 5 kg



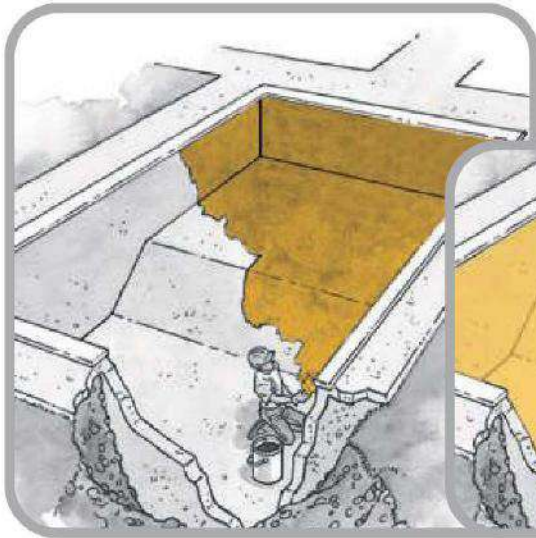
= 3~3.5 kg/m<sup>2</sup>

**PLASTIVO 180**



pg.41

[3]



1<sup>st</sup> layer 1 mm

2<sup>nd</sup> layer 2 h 1 mm



+



1 mm



2h



1 mm



## PREPARATION OF SUPPORT

[1]



20 kg

$$\text{Wheel icon} = 1.6 \text{ kg/m}^2 \times \text{Thickness icon} \leq 1 \text{ mm}$$

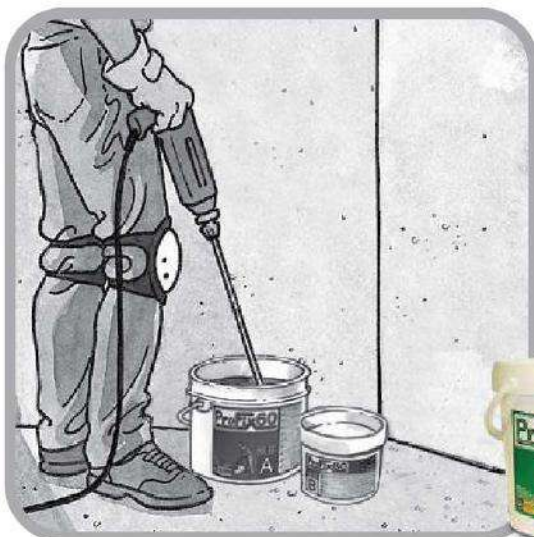
**BI MORTAR RASO SEAL**

[2]



**1<sup>st</sup> layer**  $\Rightarrow \left| \left| \leq 3 \text{ mm} \right. \right|$  **2<sup>nd</sup> layer**  **1 h**  $\Rightarrow \left| \left| \leq 3 \text{ mm} \right. \right|$

[3]



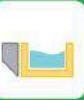
5 kg + 5,2 kg

$$\text{Wheel icon} = 0.25 \sim 0.30 \text{ g/m}^2$$

**PROFIX 60**



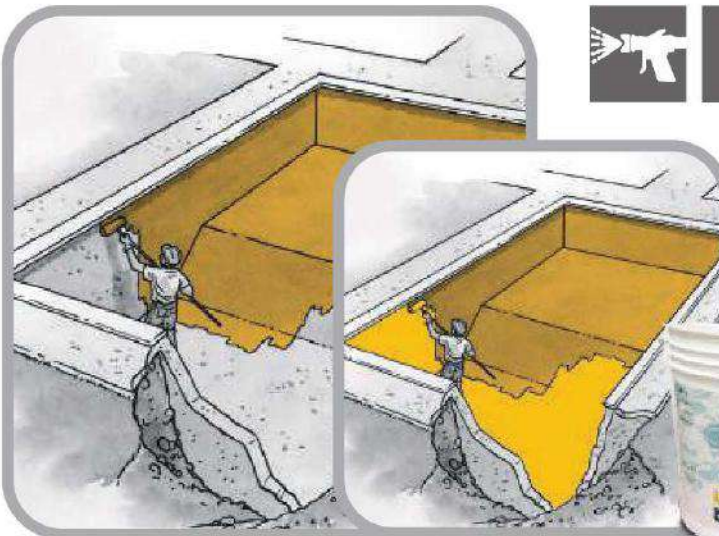
[4]



pg.43

**DECORATIVE FINISHING**

[1]



www.volteco.com



= 0.32~0.4 l/m<sup>2</sup>

**CRYSTAL POOL**

4 kg - 14 kg

1<sup>st</sup> layer 120÷125 micron 2<sup>nd</sup> layer 6 h 120÷125 micron

72 h  
 3 mm

1 h  
 3 mm

72 h

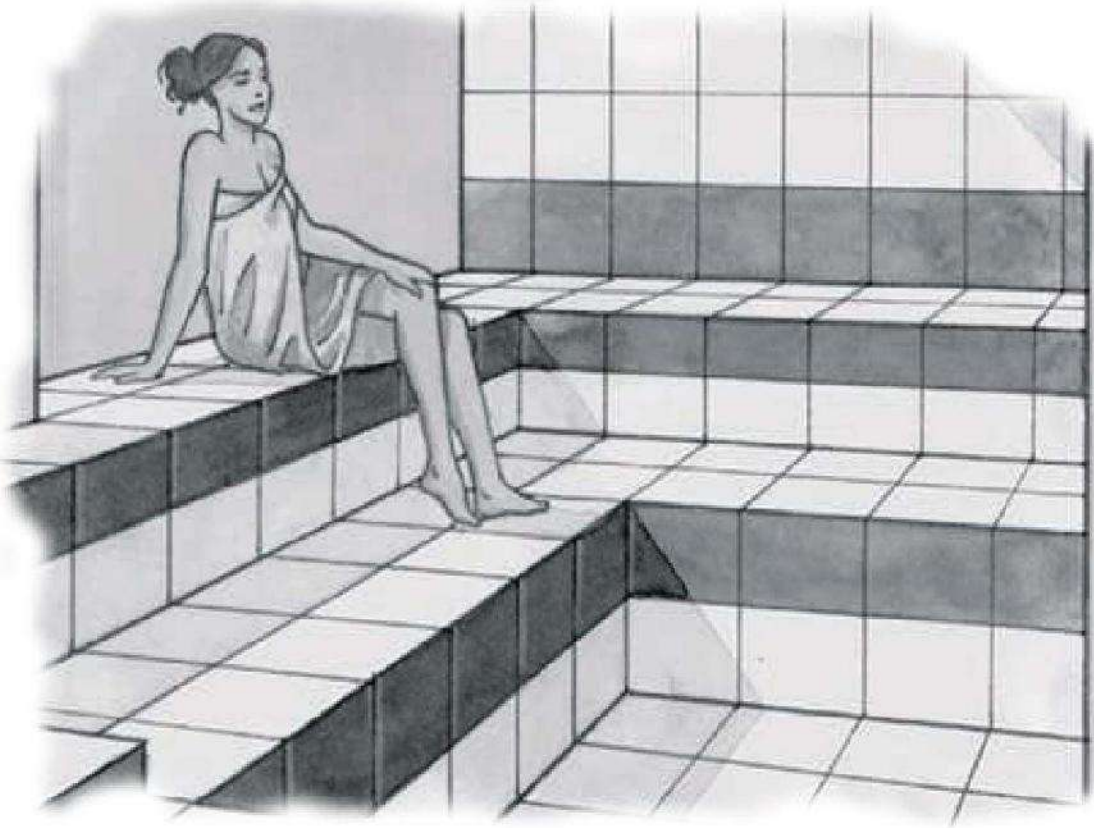
12-24 h  
 120÷125 micron

4-6 h  
 120÷125 micron



# INTERNAL AREAS WATERPROOFING

## PRELIMINARY OPERATIONS



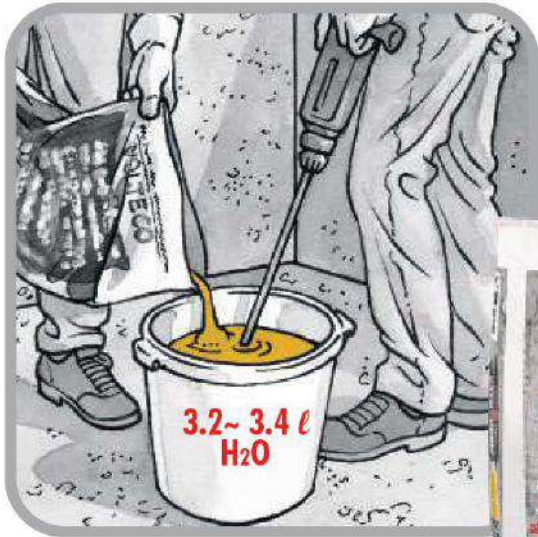
[1]



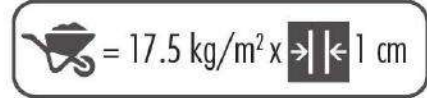
Cleaning



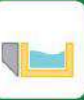
[2]



20 kg



**FIBROeRASO**



pg.45

SPA & WELLNESS CENTER

[3]



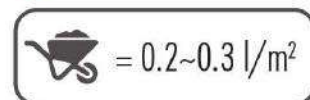
< 1~4 mm

[4]



5 l - 25 l

**OPTIONAL**

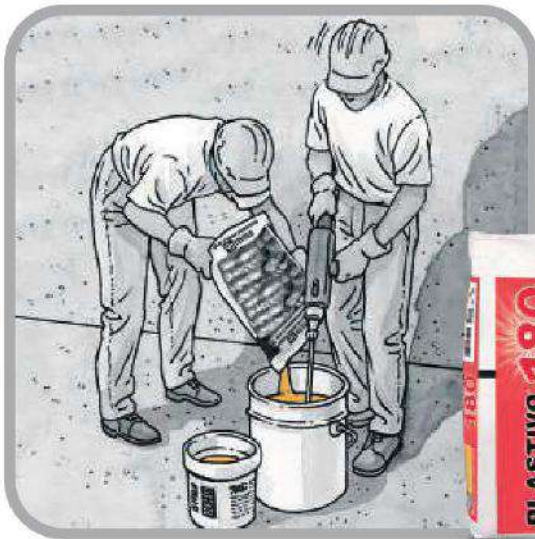


**PROFIX 30**



# JOINTS COVERS / PROFILES

[1]



3' ~ 5'




15 kg + 5 kg

CE  
UNI EN 1504-2

CE  
UNI EN 14891



 = 3~3.5 kg/m<sup>2</sup>

**PLASTIVO 180**

[2]



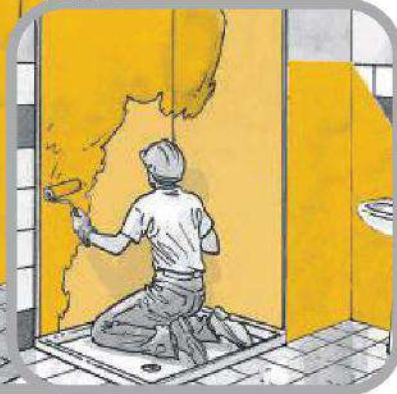
**GARVO 5**

15 cm x 20 m



# UNDER TILING WATERPROOFING

[1]



1<sup>st</sup> layer  1 mm

2<sup>nd</sup> layer  2 h  1 mm



pg.47

SPA & WELLNESS CENTER



2 h



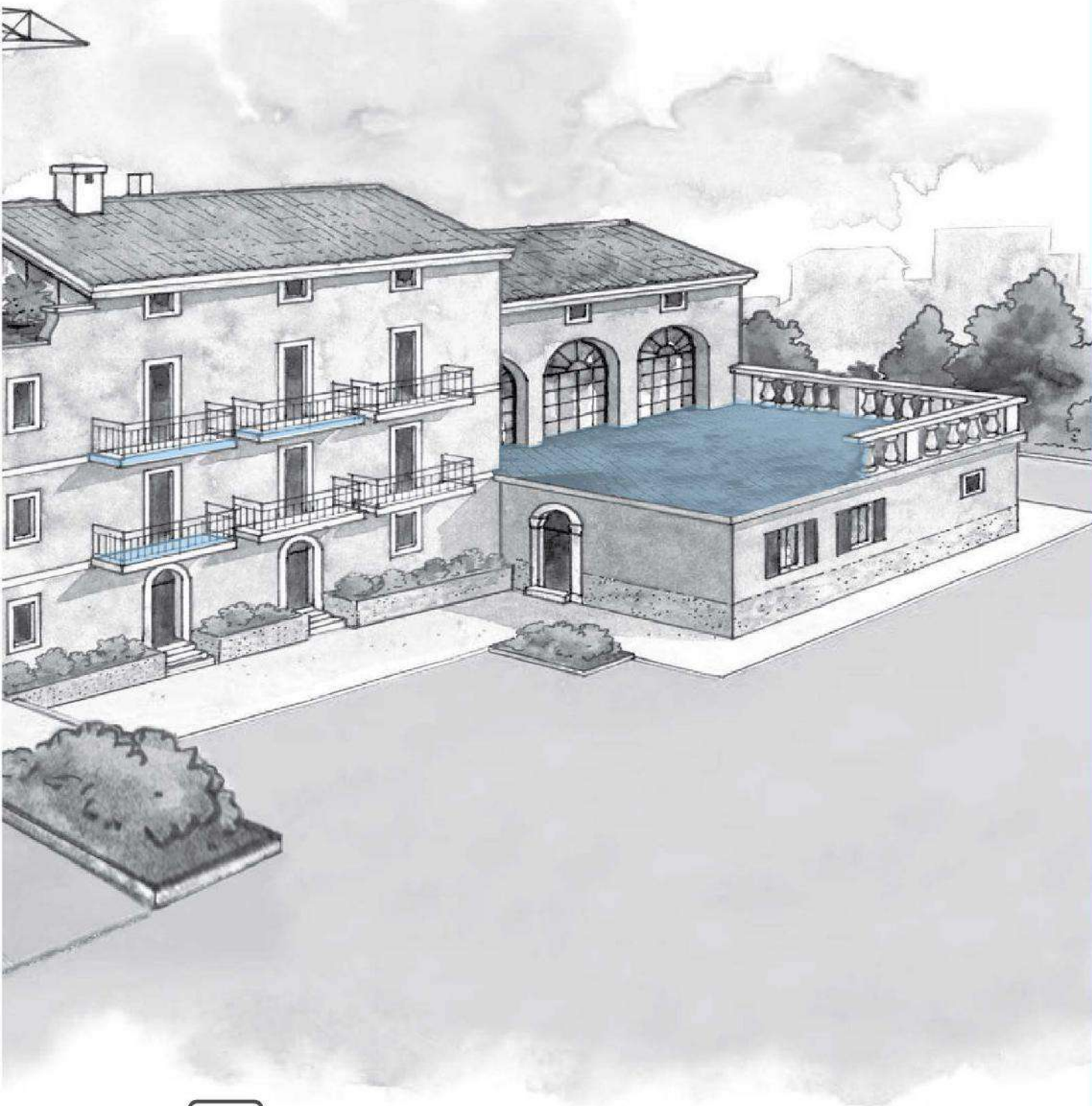


A series of 18 horizontal dotted lines for handwriting practice, arranged in a slightly curved pattern across the page.





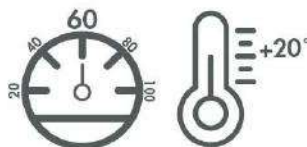
# WATERPROOFING OF TERRACES, BALCONIES AND FLAT ROOFS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



pg.49

TERRACES, BALCONIES AND FLAT ROOFS



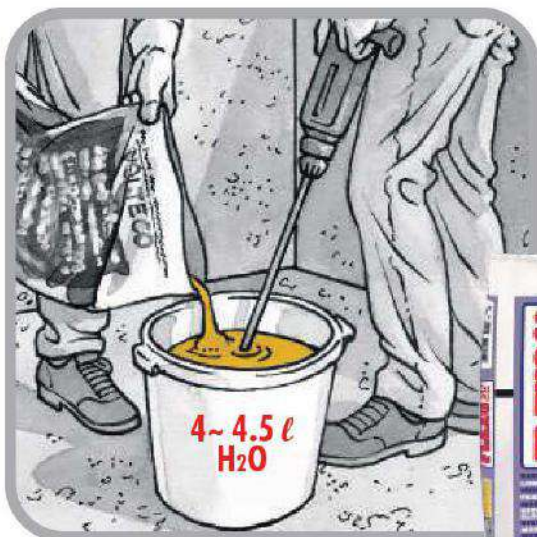
# TERRACES WATERPROOFING

## PRELIMINARY OPERATIONS

[1]



[2]





3' + 3'

H<sub>2</sub>O control



UNI EN 1501-3  
CLASSE R3

 = 16 kg/m<sup>2</sup> x  1 cm

**FLEXOMIX 30**

25 kg

[3]




pg.50

TERRACES, BALCONIES AND FLAT ROOFS



[4]



 = 0.2~0.3 l/m<sup>2</sup>

**PROFIX 30**

5 l - 25 l

[5]



**AQUASCUD BASIC**

30 m x 1 m

[6]



**ANGULARS & DRAINPIPE FITTING**



pg. 51

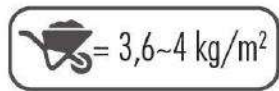


[7]



Voc free

2' ~ 3'

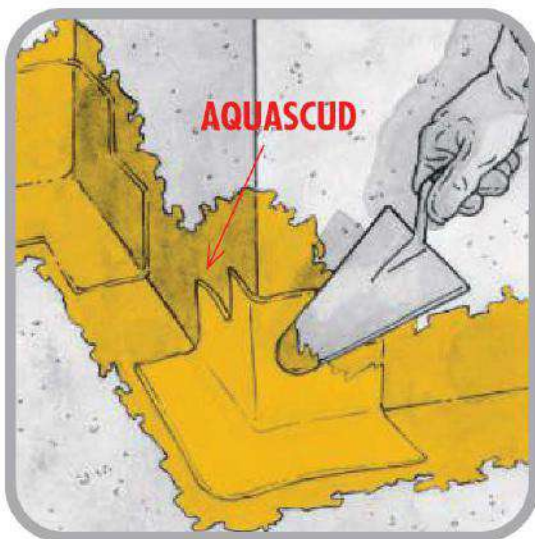


15 kg + 5.7 kg

**AQUASCUD 420**

## CORNERS JOINTS COVERS

[1]



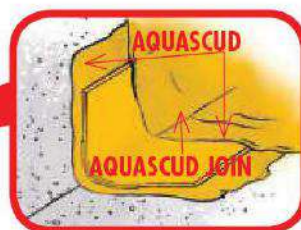
270°



90°

**AQUASCUD JOIN**  
ANGULAR 90° and 270°  
90° - 270°

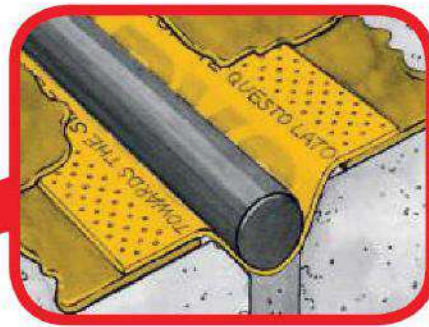
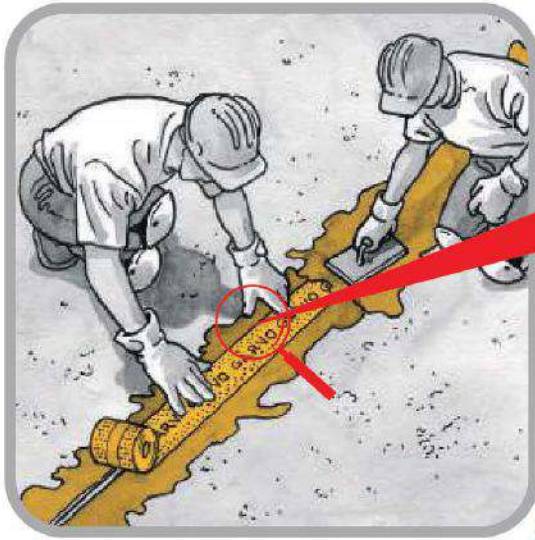
[2]



**AQUASCUD JOIN**  
10 cm x 25 m

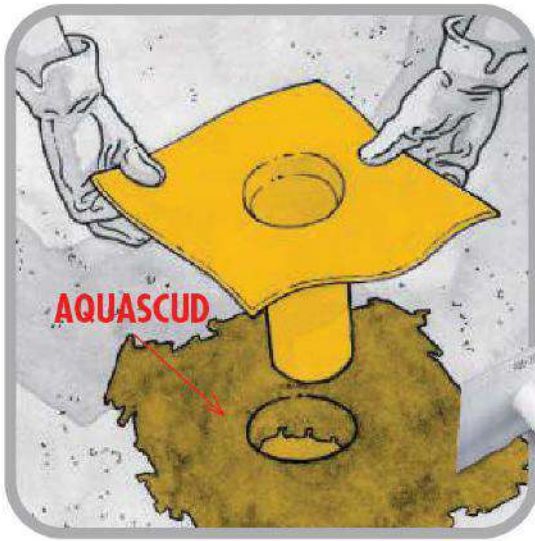


[3]



**GARVO 5**  
15 cm x 20 m

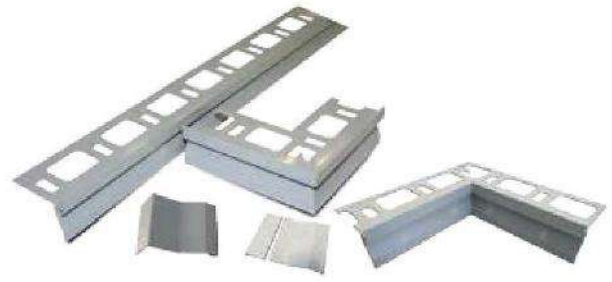
[4]



**DRAINPIPE FITTING**  
Ø 80 - Ø 100 mm

**DRAINING PROFILES**

[1]



**AQUASCUD LINE**



## FLEXIBLE WATERPROOFING

[2]



1<sup>st</sup> layer 1~1.5 mm



**AQUASCUD 420**

[3]



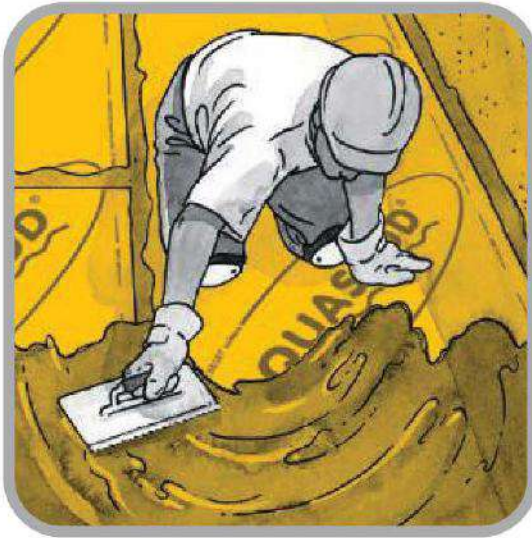
**AQUASCUD BASIC**



[4]



[5]



2<sup>nd</sup> layer ⌚ 2 h ⇄ 1 mm

[6]



⌚  
16 h



⌚  
24 h  
▶



+



⌚  
2 h  
▶



⇄ 1~1,5 mm

⇄ 1 mm



[www.volteco.com](http://www.volteco.com)



pg.55

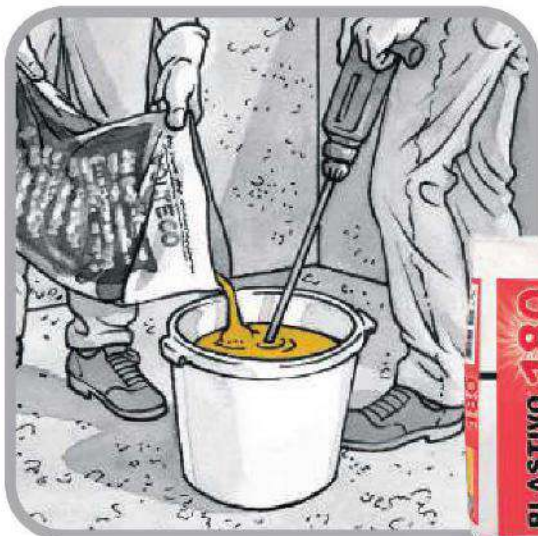


# BALCONIES WATERPROOFING

PRELIMINARY OPERATIONS see pg. 50

## CORNERS JOINTS COVERS

[1]



3' ~ 5'



CE  
UNI EN 1504-2

CE  
UNI EN 14891



= 3~3.5 kg/m<sup>2</sup>

**PLASTIVO 180**

15 kg + 5 kg

[2]



PLASTIVO



270°



90°

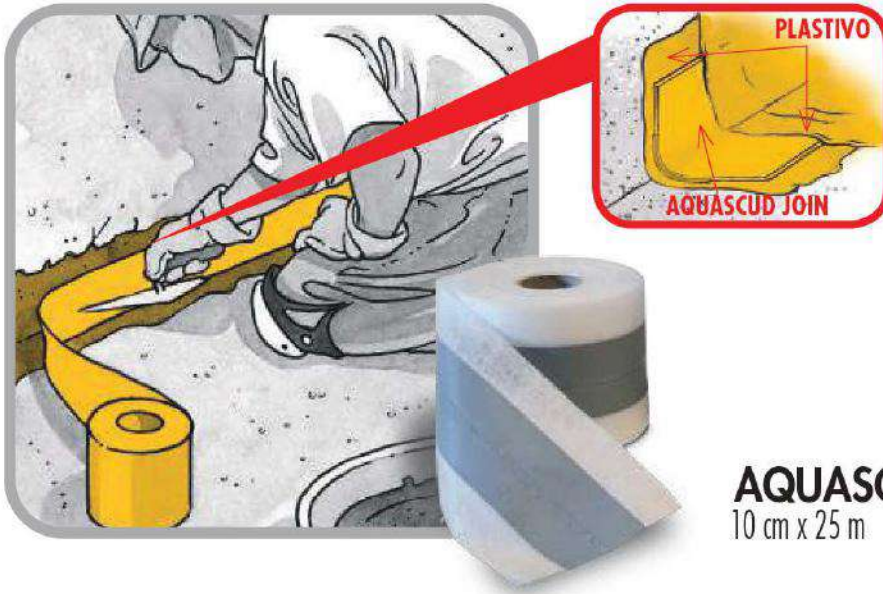
**AQUASCUD JOIN**  
**ANGULAR 90° and 270°**

90° - 270°





[3]




**AQUASCUD JOIN**  
10 cm x 25 m

**DETAILS FOR DOORS / DRAINAGE**

[4]



 = Ø 5 mm x 20 mm

**BI MASTIC**

600 cc

[5]

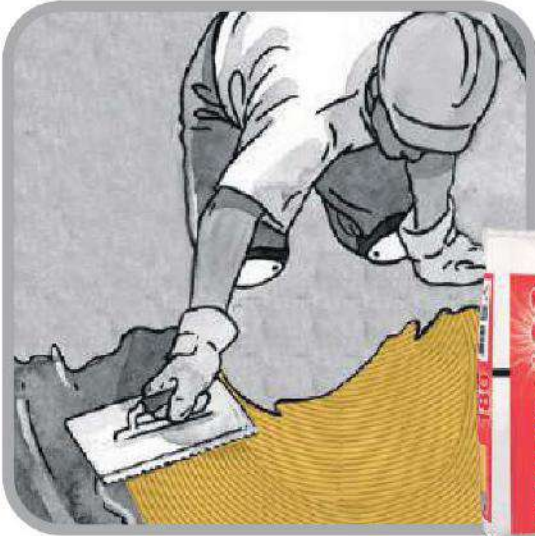


**DRAINPIPE FITTING**  
Ø 80 - Ø 100 mm



# FLEXIBLE WATERPROOFING

[1]



1<sup>st</sup> layer ⇒|← 1 mm



PLASTIVO 180

# ELASTIC MESH

[2]



XNET/FLEXONET



pg.58



[3]



2<sup>nd</sup> layer ⌚ 2 h ➡|← 1 mm

[4]



⌚  
16 h



pg.59

TERRACES, BALCONIES AND FLAT ROOFS





.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....



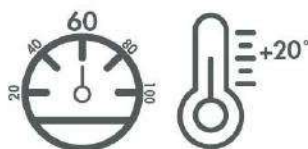
# TREATMENT OF DAMP WALLS



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%

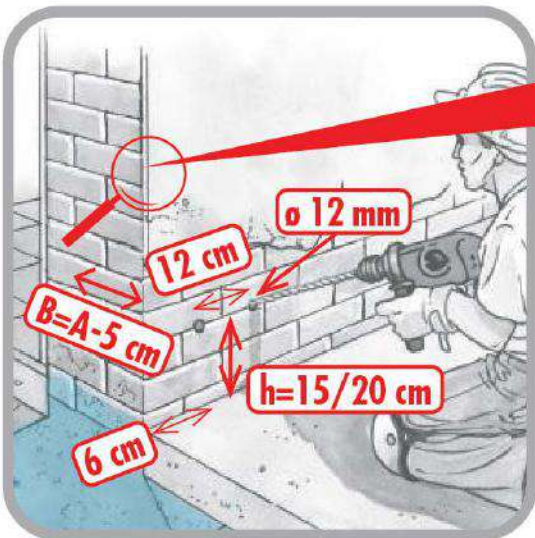


# PRELIMINARY OPERATIONS

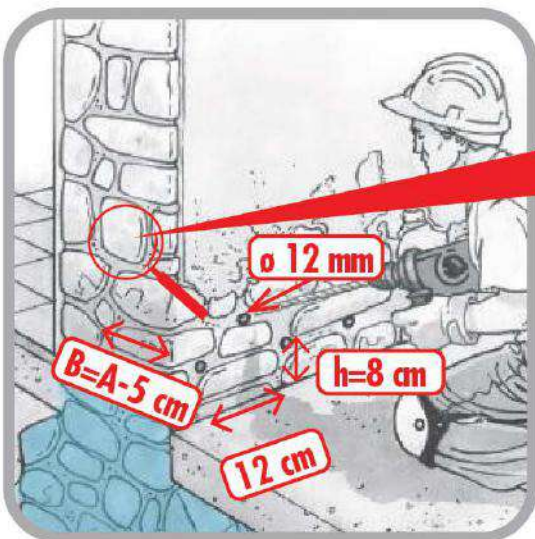
[1]



[2a]




[2b]



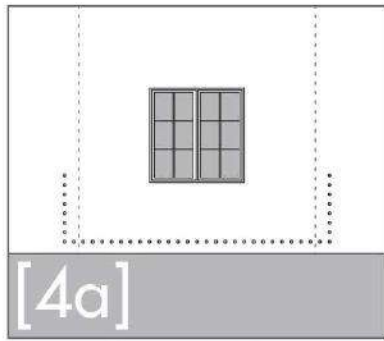
# HYDROPHOBIC BARRIER



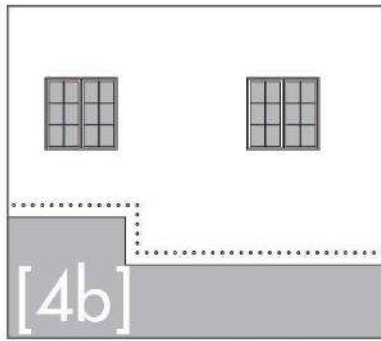
 = 10 cc x cm (A) x mt (C)



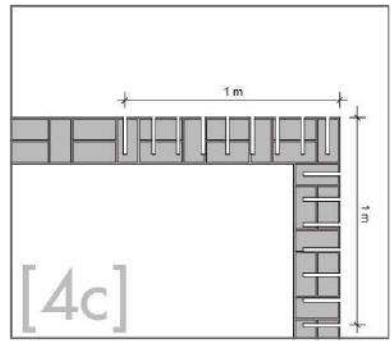
**TRIPLEZERO** 600 cc




**[4a]**  
INSULATION FROM  
SIDE BUILDINGS



**[4b]**  
CHANGE OF QUOTE



**[4c]**  
CORNER TREATMENT

 = 10 cc x cm (A) x mt (C)

	N° UNIPACK / mt	
60 cm	1 unit	
50 cm	0,83 unit	
40 cm	0,66 unit	
26 cm	0,43 unit	
13 cm	0,21 unit	



[5]



3'



15 kg

= 19 kg/m<sup>2</sup> x 1 cm

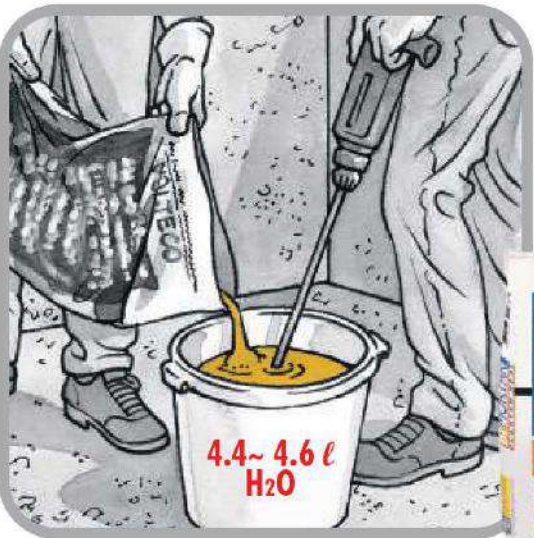
**SPIDY 15**

[6]



**WATERPROOF SKIRTING**

[1]



3'+2'



25 kg

= 18 kg/m<sup>2</sup> x 1 cm

**BI MORTAR PLASTER SEAL**



pg.64





[2]



24h



24h



**ROUGH COAT**

[1]



3'~5'



25 kg

= 6~6.5 kg/m<sup>2</sup> x 0.5 cm

**CALIBRO RINZAFFO**

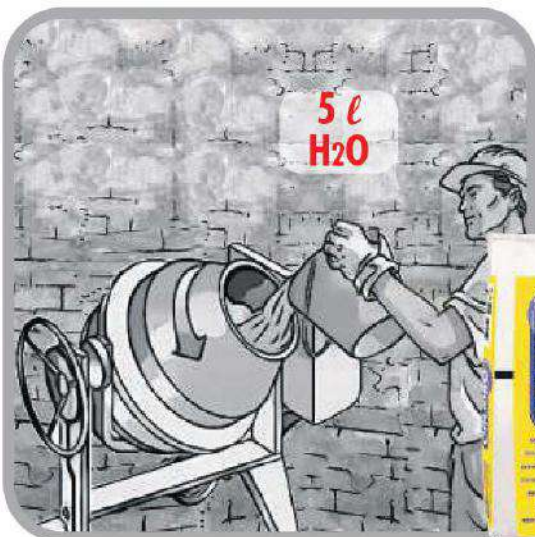
[2]



1<sup>st</sup> layer > 5 mm

**ANTI-CONDENSATION PLASTER**

[1]



5'



20 kg



= 9~9.5 kg/m<sup>2</sup> x 1 cm

**CALIBRO P.E. INTONACO**



[2a]



2<sup>nd</sup> layer  24 h  > 2 cm

[2b]

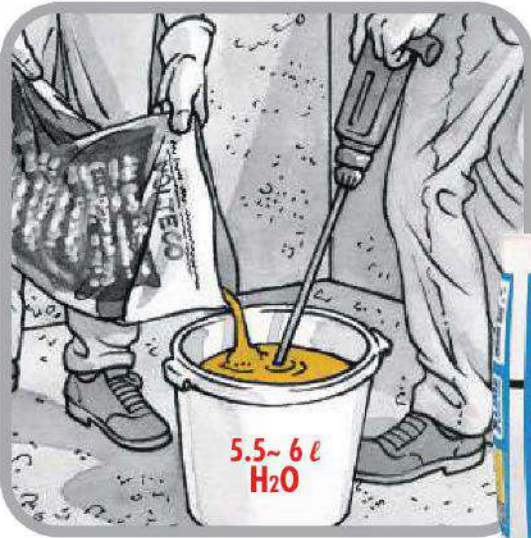


FOR HISTORICAL BUILDINGS  
natural lime based mortar



SKIM COAT

[1]



5.5~6 l  
H<sub>2</sub>O



3'~5'



20 kg



= 1.4 kg/m<sup>2</sup> x



1 mm

X-LIME

[2]



1<sup>st</sup> layer



1 mm

2<sup>nd</sup> layer



1 h



1 mm



24h



14 days



>5 mm



>2 cm

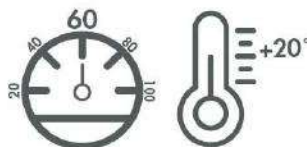


# FACADES PROTECTION (CONCRETE AND MASONRY)



[www.volteco.com](http://www.volteco.com)

**INDICATIVE WORKING PROCEDURE**  
PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.

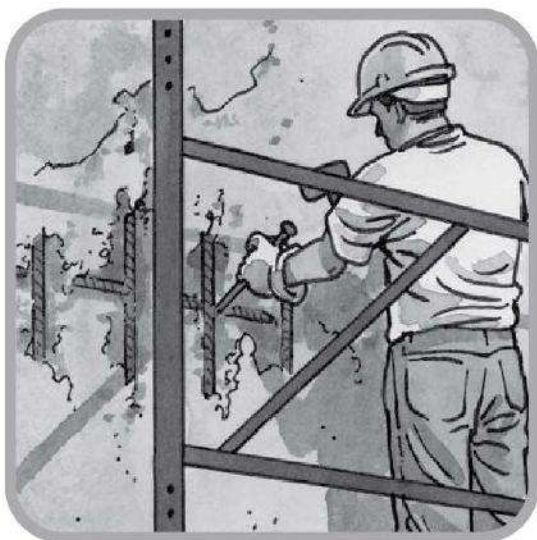


**APPLICATION CONDITIONS**  
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



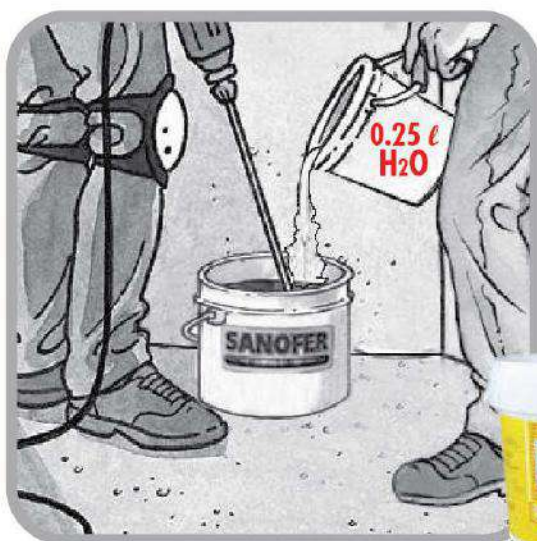
## CORROSION TREATMENT

[1]

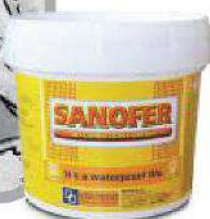


Cleaning


[2]



2'



1 kg

 = 30 g/m bars ø 8 mm  
60 g/m bars ø 16 mm

**SANOFER**

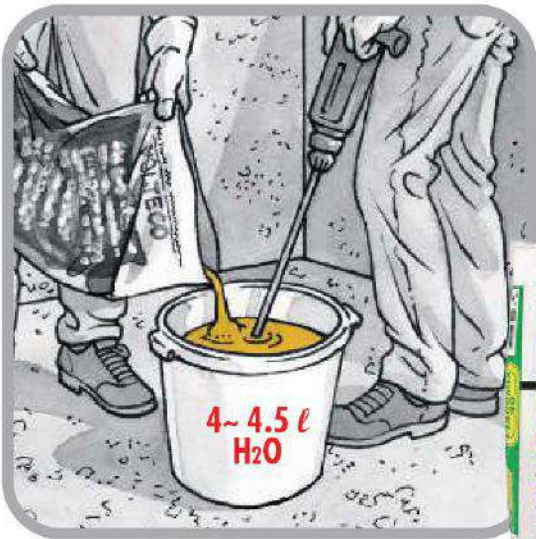
[3]



0.2~ 0.3 micron

# STRUCTURAL REPAIR

[1]



3'+3'



= 18 kg/m<sup>2</sup> x 1 cm

**FIBROMIX 40**

25 kg

[2]



5 mm~3 cm

# STRUCTURAL REPAIR AND SMOOTHING

[1]




2'~3'



H<sub>2</sub>O control



 = 17.5 kg/m<sup>2</sup> x  1 cm

**FIBROeRASO**

20 kg

[2]



1 mm~40 mm



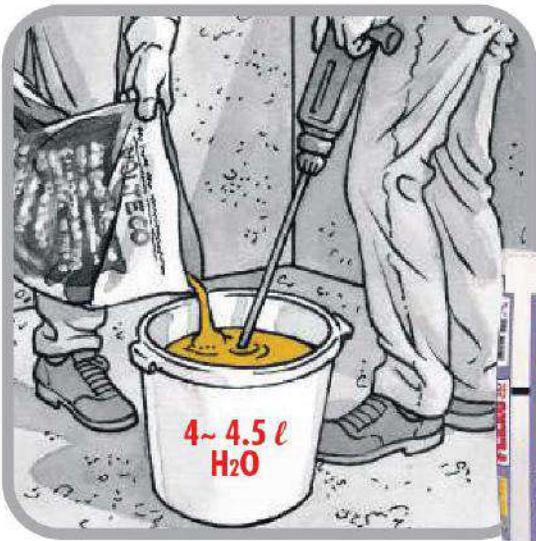
Finishing





# SEMI-STRUCTURAL REPAIR

[1]



3' + 3'



= 16 kg/m<sup>2</sup> x 1 cm

**FLEXOMIX 30**

25 kg

[2]



< 2 cm

[3]



Finishing



## LOCALIZED REPAIR

[1]



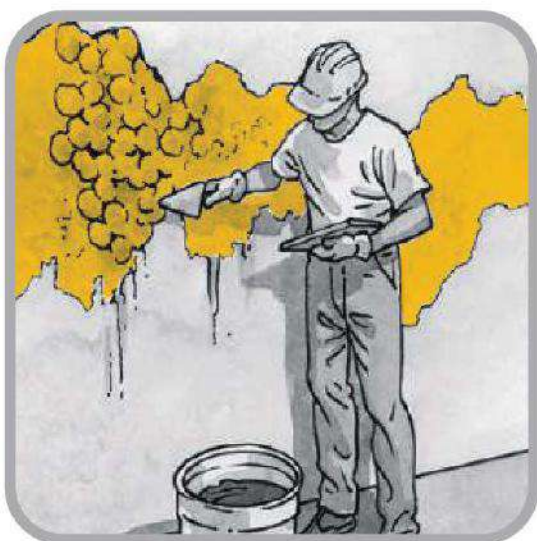
25 kg



 = 15 kg/m<sup>2</sup> x  1 cm

**FIBRO 20**

[2]



< 2 cm

# ANTI-CARBONATION PROTECTION

[1]



[www.volteco.com](http://www.volteco.com)

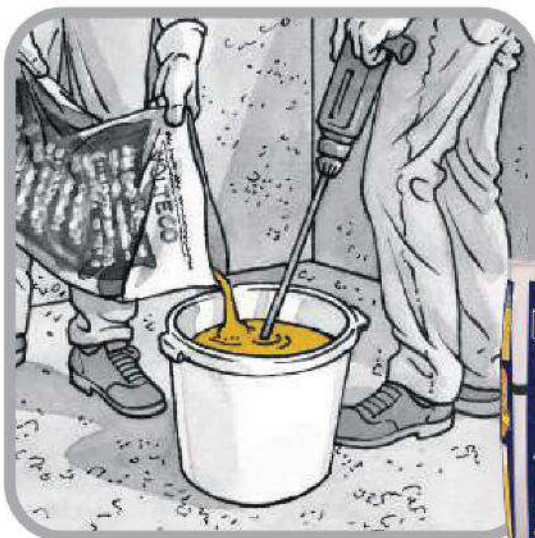


PROFIX 20



PROFIX 30



[2]



2'



15 kg + 5.7 kg

 = 2.5 kg/m<sup>2</sup> x  2 mm

CPI

[3]



XNET

[4]



1<sup>st</sup> layer  1.5 mm

CPI

[5]



XNET

[6]



2<sup>nd</sup> layer  4 h  0.5 mm

# FINISHING

[1]



CPO



25 kg



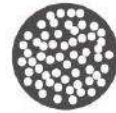
0,4 mm



1,0 mm



1,2 mm



1,5 mm



0,4 mm = 1,6~1,8 kg/m<sup>2</sup>

1,0 mm = 1,8~2,0 kg/m<sup>2</sup>

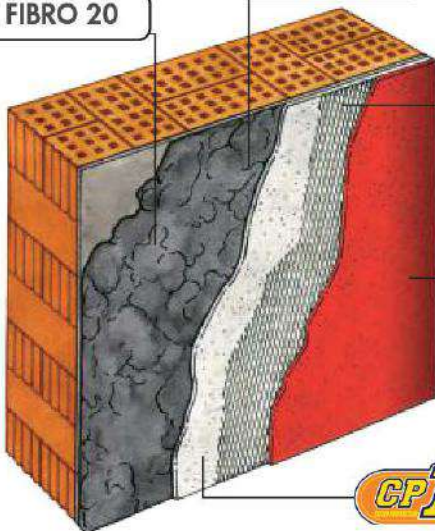
1,2 mm = 2,0~2,2 kg/m<sup>2</sup>

1,5 mm = 2,2~2,5 kg/m<sup>2</sup>

FIBRO 20

PROFIX 20

XNET

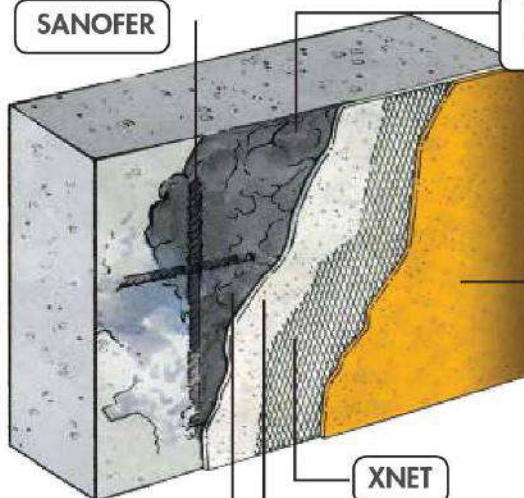


SANOFR

FIBROMIX 40  
FIBROeRASO

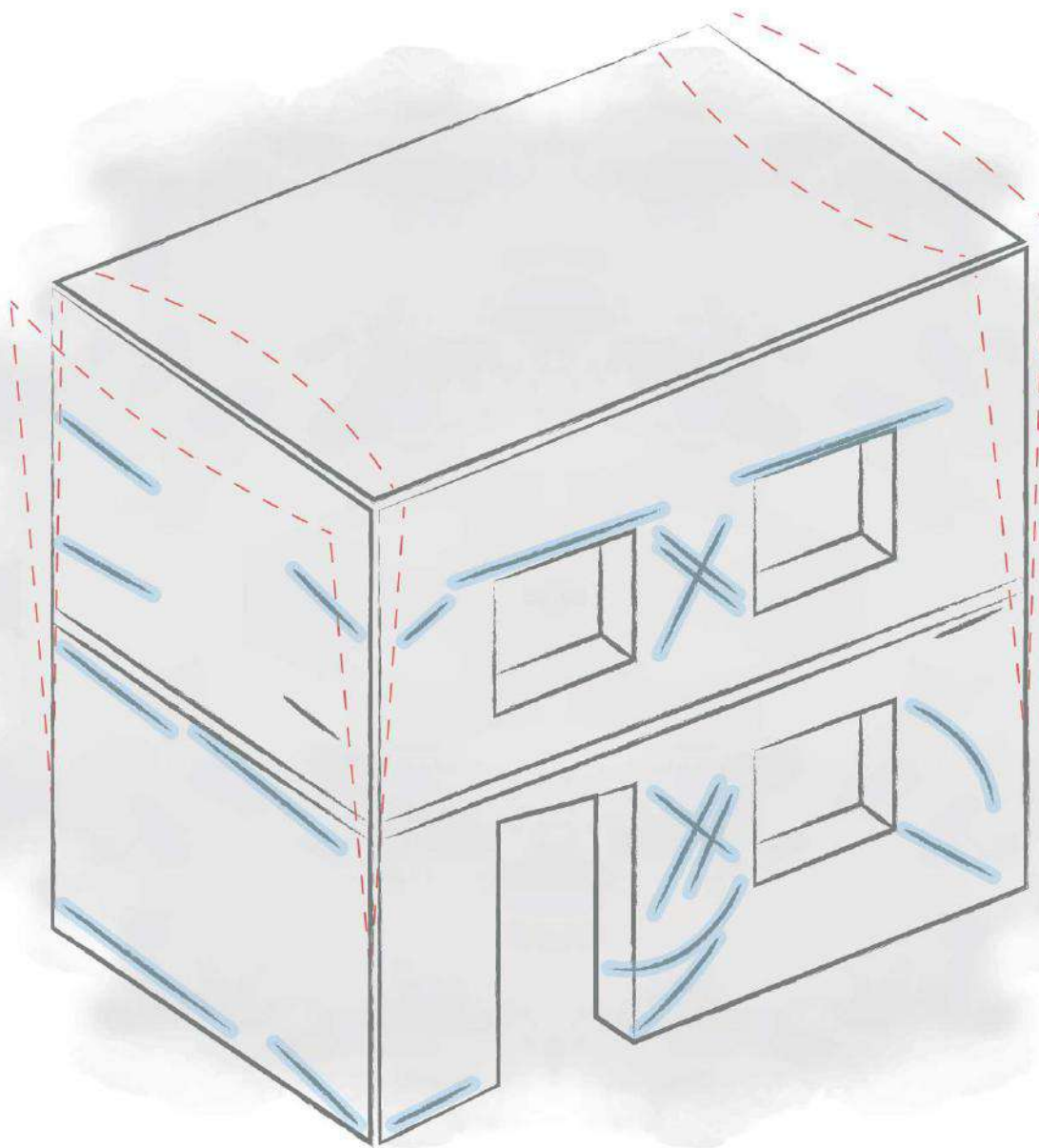
XNET

PROFIX 30





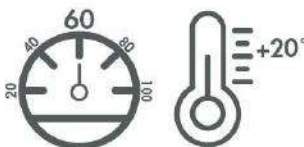
# STRUCTURAL REINFORCEMENT AND SEISMIC IMPROVEMENT



[www.volteco.com](http://www.volteco.com)

## INDICATIVE WORKING PROCEDURE

PROFESSIONAL PRODUCTS. VOLTECO RECOMMENDS ALWAYS TO CONTROL UPDATED TECHNICAL DATA SHEET OF MENTIONED PRODUCTS BEFORE APPLICATION.



## APPLICATION CONDITIONS

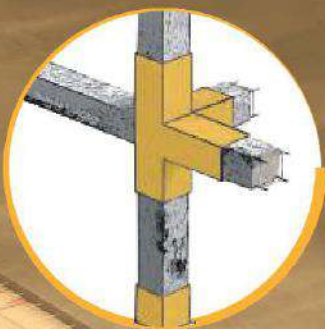
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



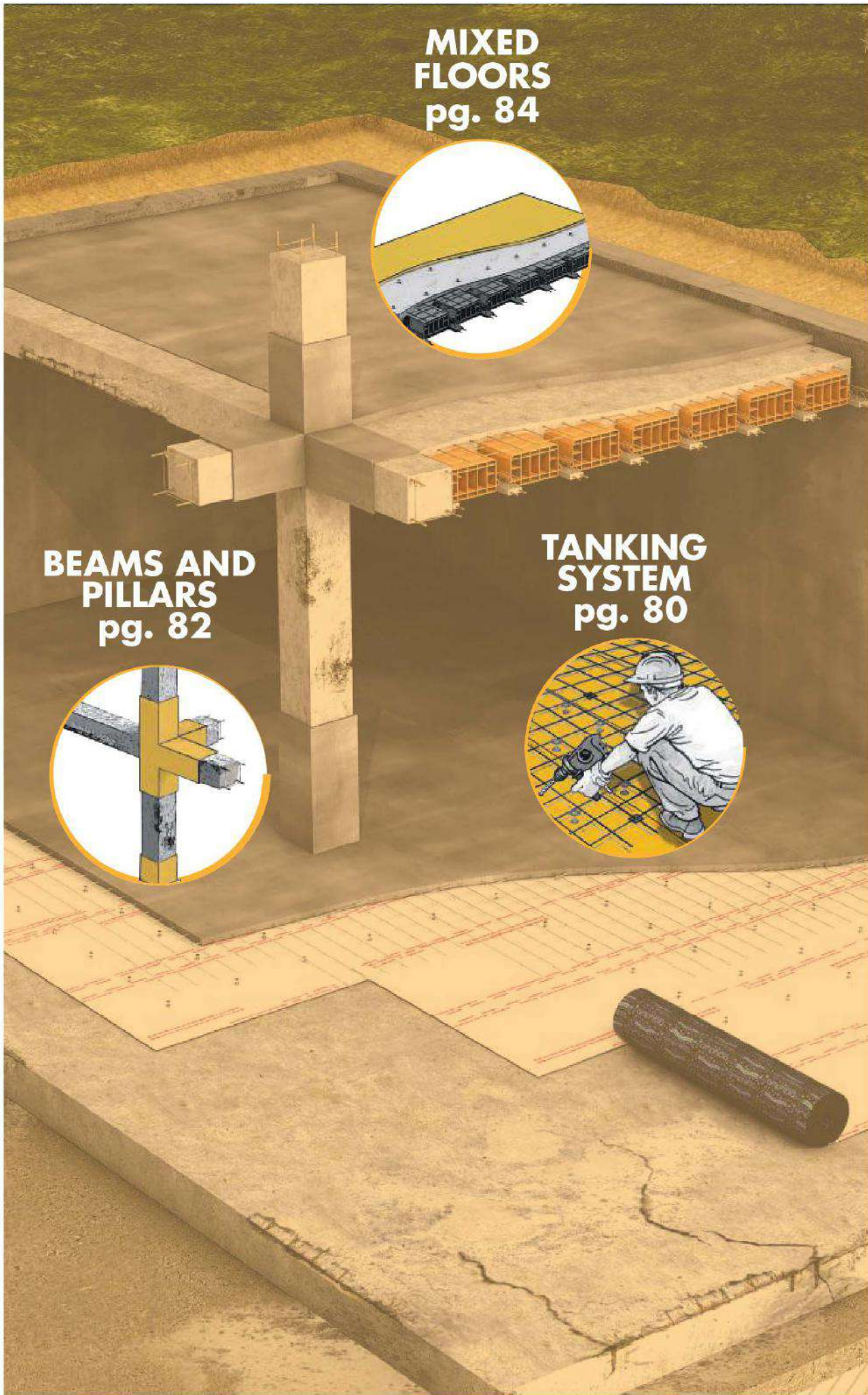
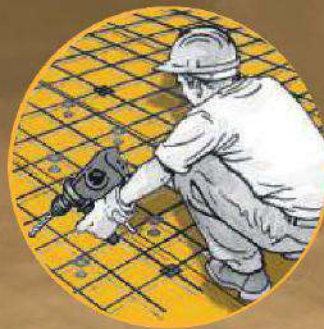
**MIXED FLOORS**  
pg. 84



**BEAMS AND PILLARS**  
pg. 82



**TANKING SYSTEM**  
pg. 80





# PREPARATION

[1]

7 kg Comp. B  
50 kg Comp. A

FIBRO HFR

25 kg comp. A 14 kg comp. B

EPD ITALY  
CE  
UNI EN 1504-3  
CLASSE R4

- 1<sup>st</sup> SEQUENCE 7 kg + 25 kg + 25 kg
- 2<sup>nd</sup> SEQUENCE 7 kg + 25 kg + 25 kg

[2]

5 kg Comp. C

FIBRO STEEL

5 kg comp. C

6'

[www.volteco.com](http://www.volteco.com)

- 3<sup>rd</sup> SEQUENCE 5 kg

	A Component = 21.01 kg/m <sup>2</sup> x	1 cm
	A+B+C Component = 25 kg/m <sup>2</sup> x	1 cm
	B Component = 2.94 kg/m <sup>2</sup> x	1 cm
	C Component = 1.05 kg/m <sup>2</sup> x	1 cm

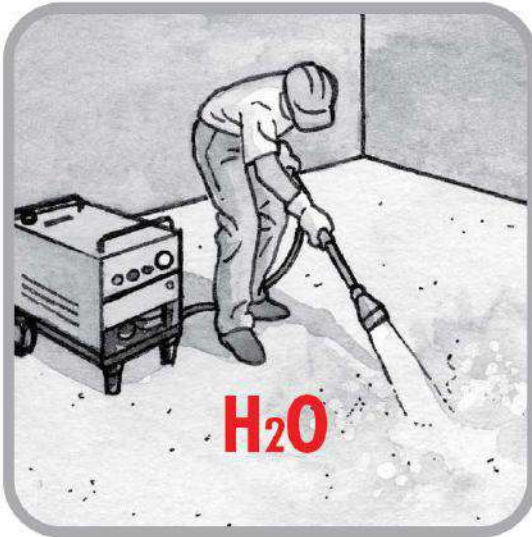




# TANKING SYSTEM

## LOW THICKNESS TANKING SYSTEM

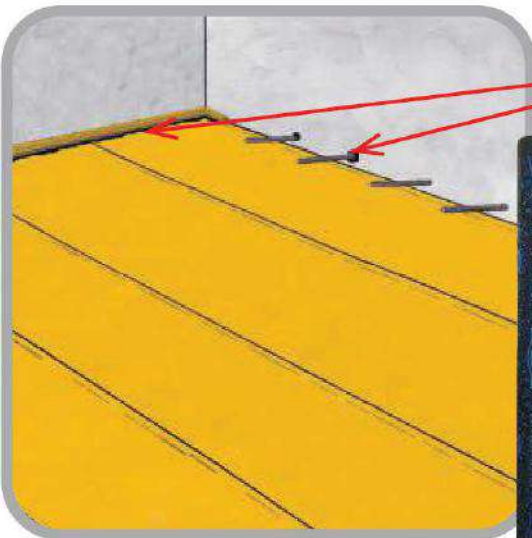
[1]




Cleaning

Sealing construction joints and rebars with WT 102 and AKTI-VO 201

[2]



**AKTI-VO 201**

 = 10 x 10 mm x 3.2 m



320 cc



**AMPHIBIA 3000 GRIP**

180 x 2000 cm

90 x 1000 cm

180 x 1000

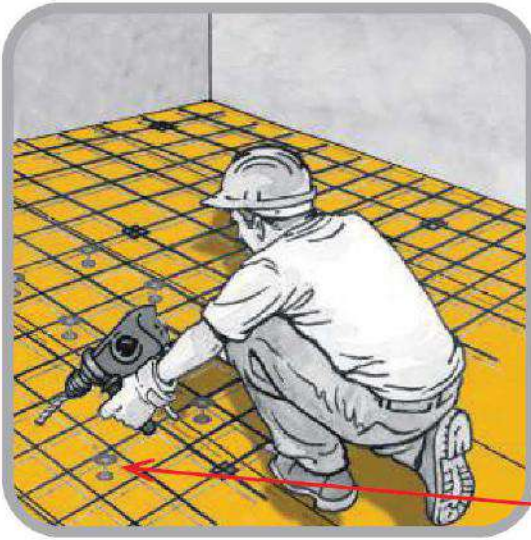
[3]



Placing reinforcement mesh




[4]



Sealing connectors



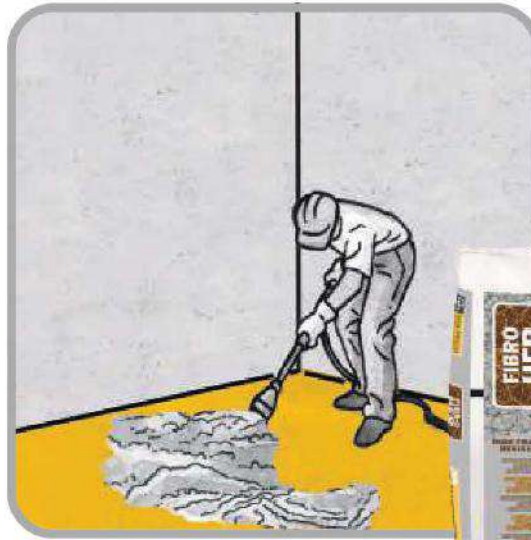
 = 15-18 m (16-20 m<sup>2</sup>)

300 ml **BI FIX 300**



**STEEL CONNETTORS 38**

[6]

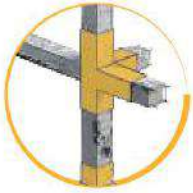


**FIBRO HFR / FIBRO STEEL**  
See preparation pg. 81



[7]





## BEAMS AND PILLARS

### CORROSION TREATMENT

[1]



[2]



2'



1 kg

 = 30 g/m bars ø 8 mm  
60 g/m bars ø 16 mm

**SANOFER**

[3]

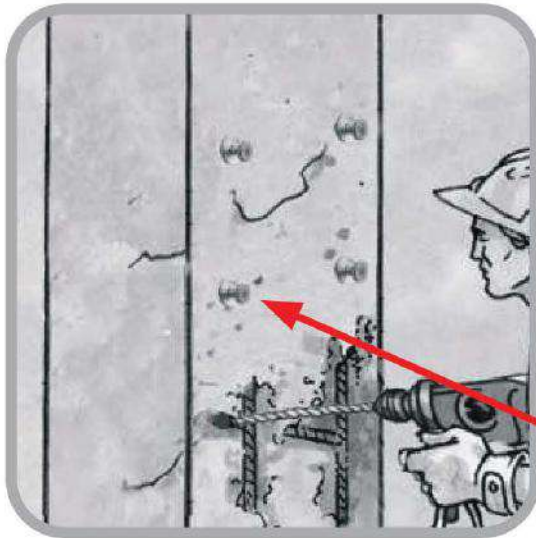


0.2~ 0.3 micron




# REINFORCEMENT OF PILLARS AND BEAMS

[1]



300 ml



 = 15-18 m (16-20 m<sup>2</sup>)

**BI FIX 300**



**STEEL CONNECTORS**

[2]



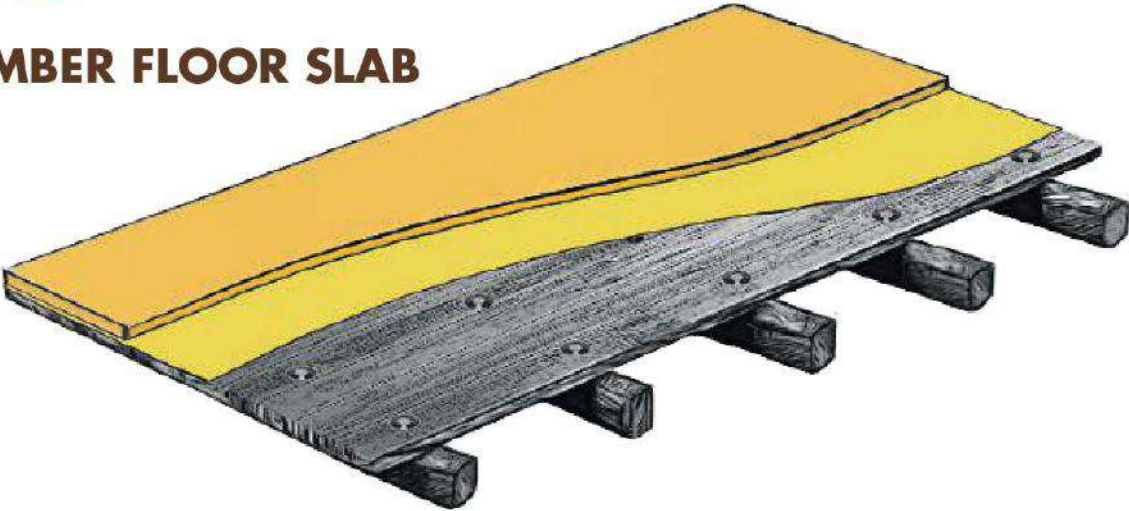
**FIBRO HFR / FIBRO STEEL**  
See preparation pg. 81



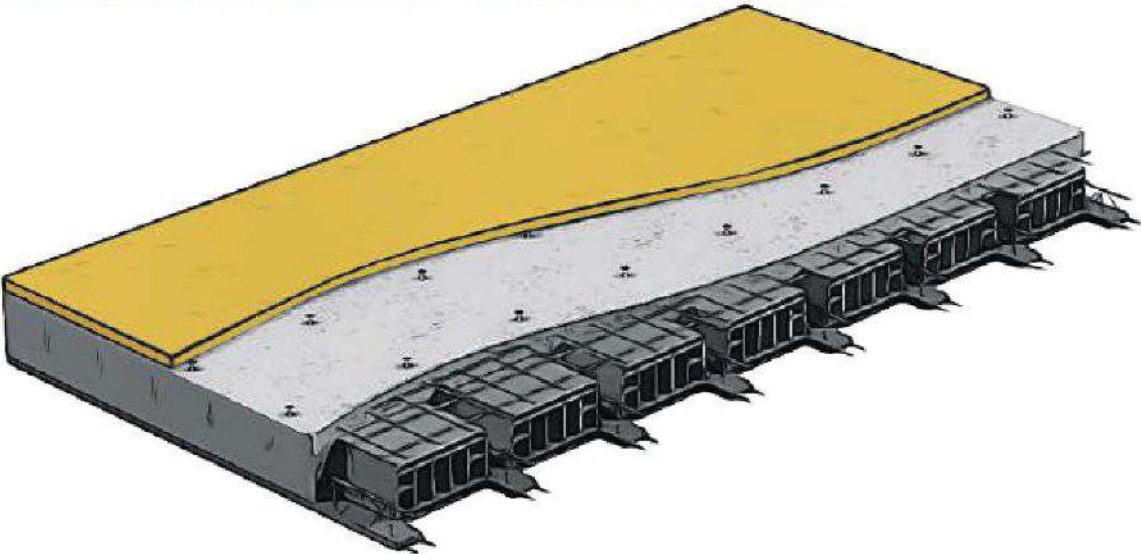


# MIXED FLOORS

**TIMBER FLOOR SLAB**



**HOLLOW BRICK AND CONCRETE SLAB**

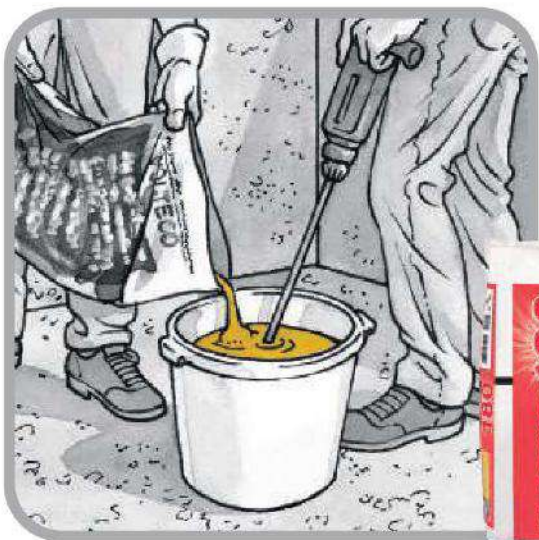


**STEEL BEAM COMPOSITE SLAB**



# PROTECTION OF WOODEN SURFACES

[1]



15 kg + 5 kg



**PLASTIVO 180**

[2]



[3]



**FIBRO HFR / FIBRO STEEL**  
See preparation pg. 81



# Note



A series of horizontal dotted lines for writing, arranged in a slightly curved pattern across the page.





# Note



A series of horizontal dotted lines for writing, arranged in a slightly curved pattern across the page.



# Note



A series of approximately 20 horizontal dotted lines are arranged across the page, providing a guide for handwriting practice. The lines are evenly spaced and extend across most of the page width.



# DISCOVER



**Technical sketches**



**Technical datasheets**



**Declaration of Performance**



**Safety data sheets**

**[www.volteco.com](http://www.volteco.com)**



**DOWNLOAD**

## WATERPROOFING OF BASEMENTS



## WATERPROOFING OF POOLS AND TANKS



## WATERPROOFING OF TERRACES AND BALCONIES



## TREATMENT OF DAMP WALLS



## RESTORATION AND PROTECTION OF FACADES



Informazioni, immagini, testi contenuti nel presente depliant illustrativo sono proprietà di Volteco spa; le stesse sono da considerarsi puramente indicative e suscettibili di modifica in qualsiasi momento e senza preavviso. Su [www.volteco.com](http://www.volteco.com) è disponibile la versione più aggiornata della presente documentazione. Information, images and text found in this document are exclusive property of Volteco S.p.A. They may change anytime without prior notice. Updated versions of this and other documentation (specification, brochure, other) are on [www.volteco.com](http://www.volteco.com).



VOLTECO S.p.A.  
Via delle Industrie, 47  
31050 Ponzano Veneto (TV) Italy  
tel. +39 0422 9663 - fax +39 0422 966401  
[volteco@volteco.it](mailto:volteco@volteco.it) - [www.volteco.com](http://www.volteco.com)



COMPANY CERTIFIED MANAGEMENT SYSTEM QUALITY  
ISO 9001 - ENVIRONMENT ISO 14001 - SAFETY ISO 45001