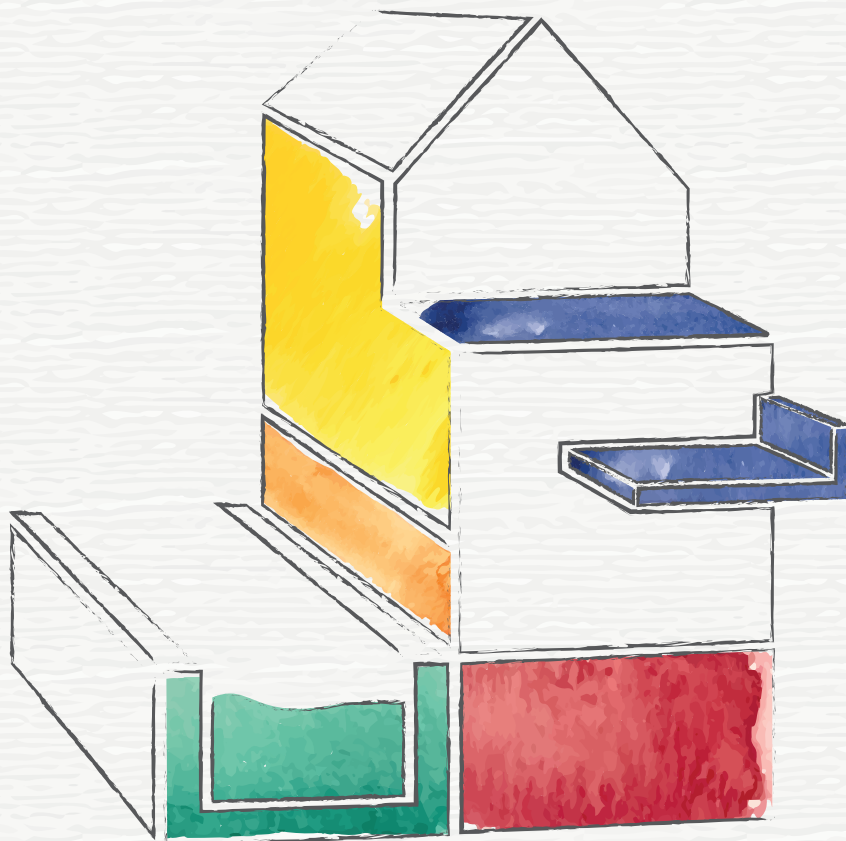


# MANUALETTO

*VOLTECO HANDBOOK*





## PREPARATION

*IT* Preparazione *FR* Préparation *DE* Vorbereitung *ES* Preparación  
*HR* Priprema *SQ* Përgatitja *SL* Priprava *RO* Pregătire *RU* Подготовка  
*NL* Voorbereiding *SK* 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 *SK* Aplikácia *CZ* Aplikace *HU* Alkalmazás *PL* Aplikacja  
*EL* Εφαρμογή *TR* Uygulama *AR* التطبيق *CN* 涂用



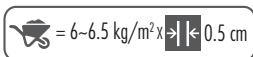
## CHECKING

*IT* Controllo *FR* Contrôle *DE* Überprüfung *ES* Control *HR* Kontrola  
*SQ* Kontrolli *SL* Nadzor *RO* Control *RU* Контроль *NL* Controle *SK*  
*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 *SK* Postup *CZ* Postup *HU* Folyamat *PL* Kolejność *EL* Ακολουθία  
*TR* Sıra *AR* التسلسل *CN* 顺序



## CONSUMPTION AND YIELD

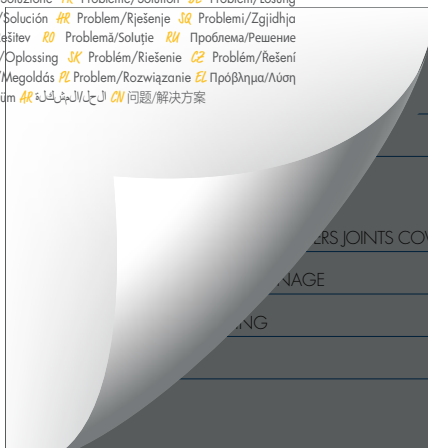
*IT* Consumo e resa *FR* Consommation et rendement *DE* Verbrauch und  
 Ergiebigkeit *ES* Consumo y rendimiento *HR* Potrošnja i izdažnost *SQ*  
 Konsumi dhe prodhimi *SL* Poraba in učinek *RO* Consum și randament  
*RU* Потребление и рентабельность *NL* Verbruik en resultaat  
*SK* Spotreba a výťažnosť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



## PROBLEM/SOLUTION

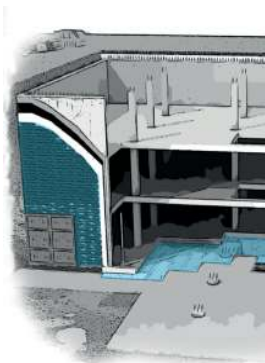
*IT* Problema/Soluzione *FR* Problème/Solution *DE* Problem/Lösung  
*ES* Problema/Solución *HR* Problem/Rješenje *SQ* Problemi/Zgjidhja  
*SL* Težava/Rešitev *RO* Problem/Soluție *RU* Проблема/Решение  
*NL* Problem/Oplossing *SK* Problém/Riešenie *CZ* Problém/Řešení  
*HU* Probléma/Megoldás *PL* Problem/Rozwiązanie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

Legend





## 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

EXPANSION JOINTS pg. 18

## MIXED STRUCTURES SUBJECTED TO NEGATIVE WATER PRESSURE



### SURFACE WATERPROOFING

VERTICAL WATERPROOFING pg. 20

HORIZONTAL WATERPROOFING pg. 22

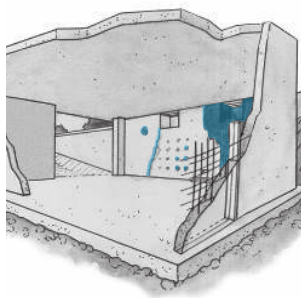
### SEALING

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

LIGHTS AND PENETRATIONS SEALING pg. 34

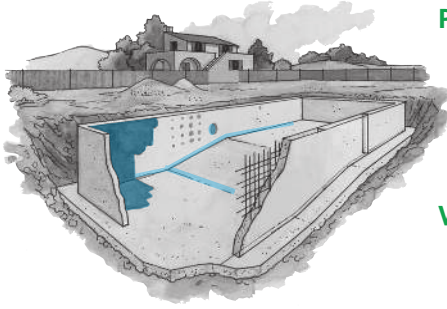
CRACKS AND JOINTS pg. 36

### WATERPROOFING

FLEXIBLE WATERPROOFING pg. 37

WATERPROOFING WITH CRYSTALLIZATION pg. 38

## POOLS AND TANKS



### PRELIMINARY OPERATIONS AND SEALING

LIGHTS AND PENETRATIONS SEALING [pg. 40](#)

CONSTRUCTION AND MOVEMENT JOINTS SEALING [pg. 42](#)

### WATERPROOFING AND FINISHING

FLEXIBLE WATERPROOFING [pg. 42](#)

PREPARATION OF SUPPORT [pg. 44](#)

FINISHING [pg. 45](#)

## FOCUS

## SPA & WELLNESS CENTER



### INTERNAL AREAS WATERPROOFING

PRELIMINARY OPERATIONS [pg. 46](#)

JOINTS COVERS / PROFILES [pg. 48](#)

UNDER TILING WATERPROOFING [pg. 49](#)



## TERRACES, BALCONIES AND FLAT ROOFS



### TERRACES WATERPROOFING

PRELIMINARY OPERATIONS [pg. 52](#)

CORNERS JOINTS COVERS [pg. 54](#)

DRAINING PROFILES [pg. 55](#)

FLEXIBLE WATERPROOFING [pg. 56](#)

FINISHING WITH REFLECTING ELASTIC COATING [pg. 57](#)

### BALCONIES WATERPROOFING

PRELIMINARY OPERATIONS / CORNERS JOINTS COVERS [pg. 58](#)

DETAILS FOR DOORS / DRAINAGE [pg. 59](#)

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## TREATMENT OF DAMP WALLS



### CHEMICAL BARRIER

PRELIMINARY OPERATIONS pg. 64

HYDROPHOBIC BARRIER pg. 65

### DEHUMIDIFICATION CYCLE

WATERPROOF SKIRTING pg. 66

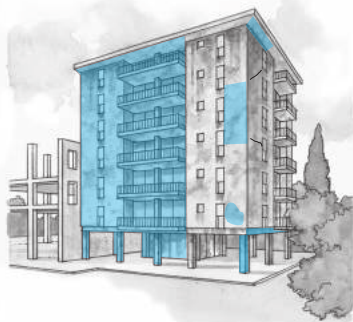
ROUGH COAT pg. 68

ANTI-CONDENSATION PLASTER pg. 68

SKIM COAT pg. 70



## FACADES PROTECTION (CONCRETE AND MASONRY)



### REPAIR

CORROSION TREATMENT pg. 72

STRUCTURAL REPAIR pg. 73

STRUCTURAL REPAIR AND SMOOTHING pg. 74

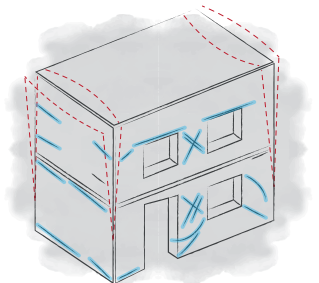
SEMI-STRUCTURAL REPAIR pg. 75

### PROTECTION AND PAINTING

ANTI-CARBONATION PROTECTION pg. 76

FINISHING pg. 78

## STRUCTURAL REINFORCEMENT AND SEISMIC IMPROVEMENT



PREPARATION pg. 83

### TANKING SYSTEM

LOW THICKNESS TANKING SYSTEM pg. 84

### BEAMS AND PILLARS

CORROSION TREATMENT pg. 86

REINFORCEMENT OF PILLARS AND BEAMS pg. 87

### MIXED FLOORS

PROTECTION OF WOODEN SURFACES pg. 89

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**AQUASCUD JOIN** pg. 48 - 54 - 59



**AQUASCUD JOIN ANGULAR** pg. 53 - 54 - 58



**AQUASCUD LINE** pg. 55



**AQUASCUD SYSTEM 420** pg. 54 - 56



**AQUASCUD REFLEX** pg. 57



**BI FIX 300** pg. 21 - 85 - 87



**BI FLEX SYSTEM** pg. 24 - 36 - 42



**BI MASTIC** pg. 11 - 15 - 17 - 22 - 59



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**BI MORTAR PLASTER SEAL** pg. 20 - 66



**BI MORTAR RASO SEAL** pg. 45



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**CALIBRO NHL** pg. 69



**CALIBRO PLUS EVAPORATION** pg. 68





















**CP0** pg. 78



**CP1** pg. 76 - 78



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	<b>FIBROeRASO</b>	pg. 47 - 74 - 78
	<b>FIBROMIX 40</b>	pg. 73 - 78
	<b>FLEXOMIX 30</b>	pg. 52 - 75
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	<b>PROFIX 20</b>	pg. 76 - 78
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	<b>SANOFER</b>	pg. 72 - 78 - 86
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	<b>STEEL CONNETTORS</b>	pg. 21 - 23 - 85 - 87
	<b>TRIPLEZERO</b>	pg. 65
	<b>X-LIME</b>	pg. 70
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	<b>WT BREAK</b>	pg. 14



# DISCOVER



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



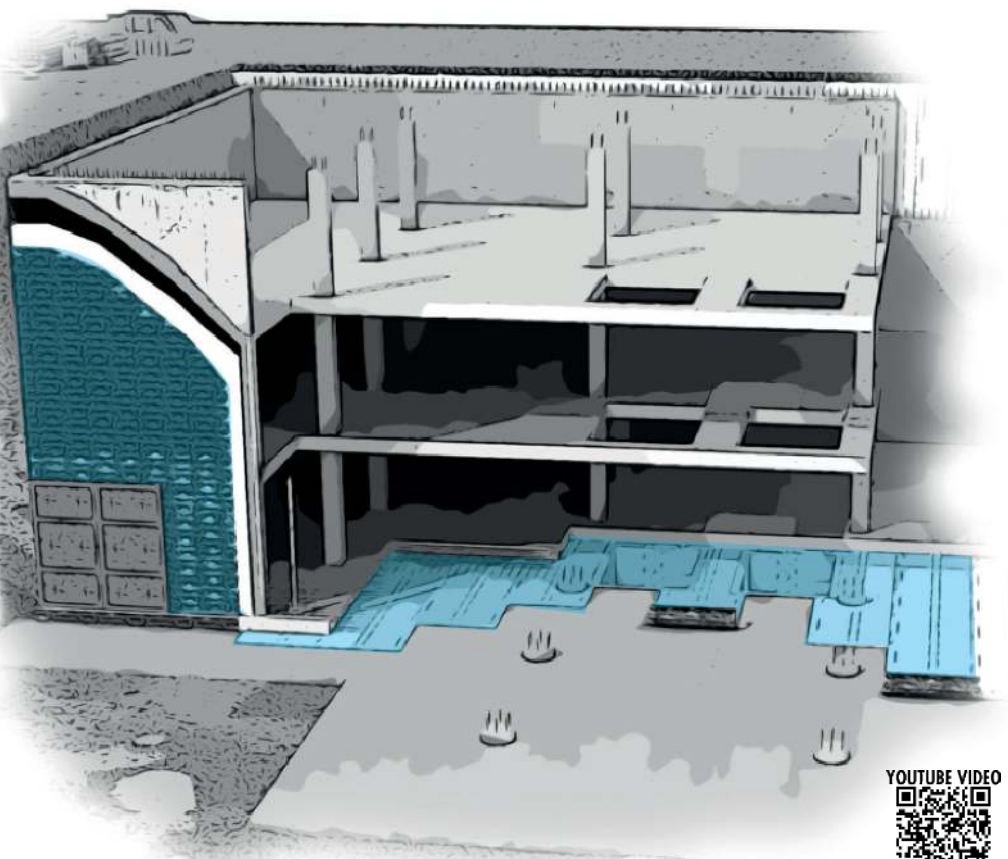


# NEW CONSTRUCTIONS



pg.9

WATERPROOFING OF BASEMENTS



YOUTUBE VIDEO



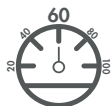
APPLICATION VIDEO



[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.



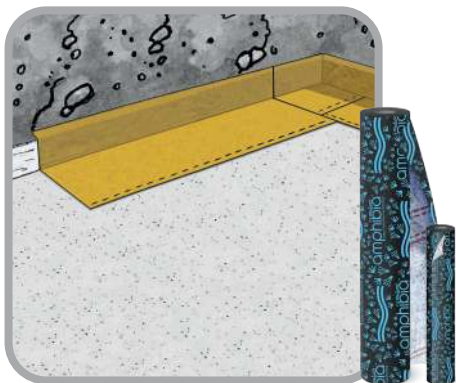
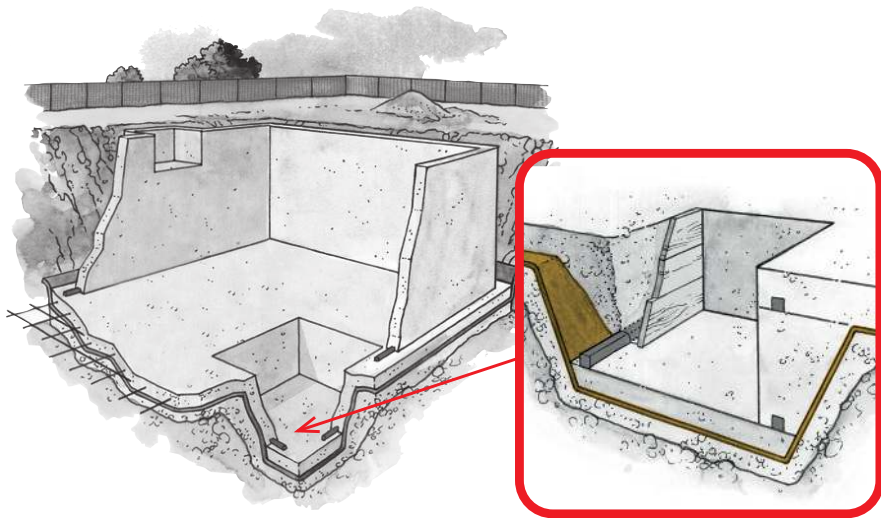
## APPLICATION CONDITIONS

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





# RAFT FOUNDATION



## AMPHIBIA 3000 GRIP

180 x 2000 cm  
90 x 1000 cm

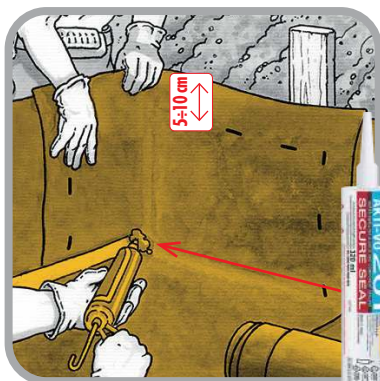





[2]



[3]

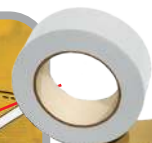
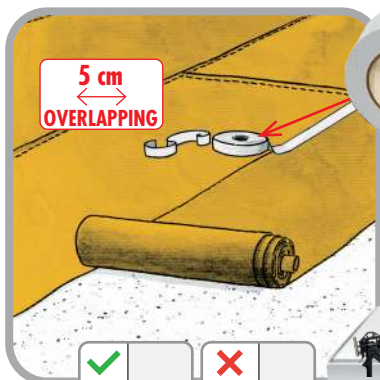


320 cc


 = 10 x 10 mm x 3.2 m

**AKTI-VO 201**

[4]




25 m x h 6 cm

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

**AMPHIBIA SAFETY TAPE**

**AND/OR**



 = Ø 5 mm x 18 m

**BI MASTIC**



600 cc



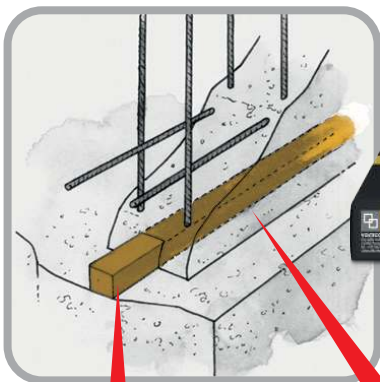


[5]



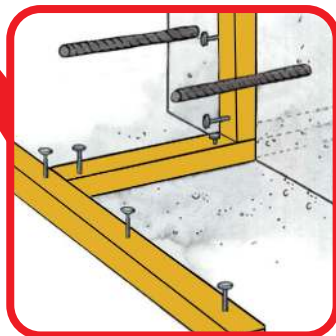
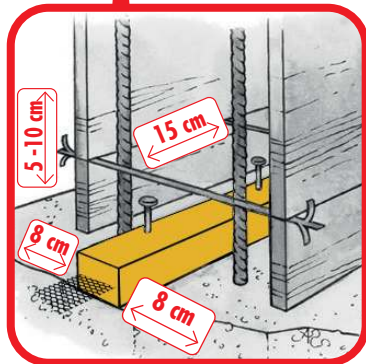
## CONSTRUCTION JOINTS

[1]



**WT CONSTRUCTION**

m 21    m 30





# PILE HEADS

[1]



3' + 3'

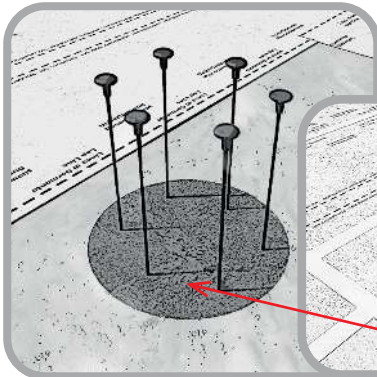


= 19 kg/m<sup>2</sup>

**BI MORTAR LEVELLING SEAL**

25 kg

[2a]



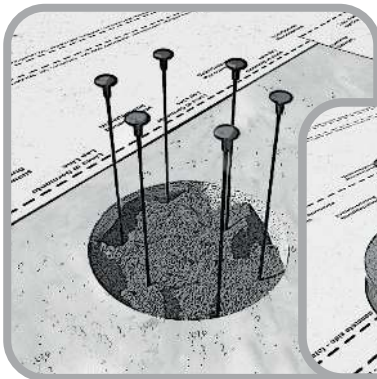
**AMPHIBIA 3000 GRIP**



**AKTI-VO 201**

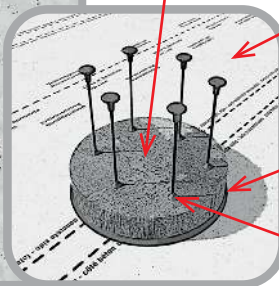
**BI MORTAR LEVELLING SEAL**

[2b]



**BI MORTAR LEVELLING SEAL**

**AMPHIBIA 3000 GRIP**



**WT CONSTRUCTION**

**AKTI-VO 201**





# STRUCTURAL CRACK INDUCER

[1]



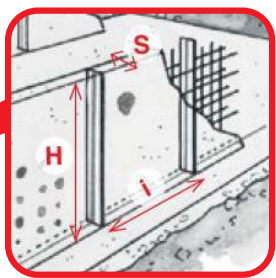
**WT BREAK**

18,5 X 100 cm - thickness 2 cm

[2]



[3]



INTERAX ESTIMATED CALCULATION

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

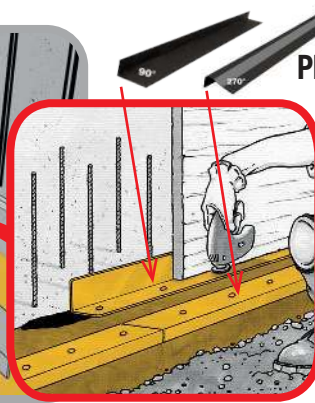




# RETAINING WALLS WATERPROOFING

## PRE-APPLIED INSTALLATION

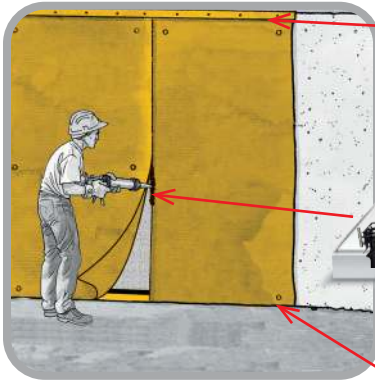
[1]



**AMPHIBIA  
PRESSURE CORNER**



[2]



**AMPHIBIA PRESSURE LINE**



$\varnothing$  5 mm x 18 mm



**BI MASTIC**

600 cc

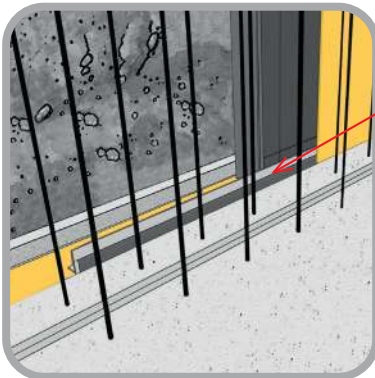


**STOPPER + AKTI-VO 201**



320 cc

[3]



**AMPHIBIA PRESSURE CORNER**



**+ AKTI-VO 201**



320 cc







# A Solution - POST-APPLIED INSTALLATION

[1]



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

**SPIDY 15**

15 kg



**Mortar cove fillet**




**Penetrations**



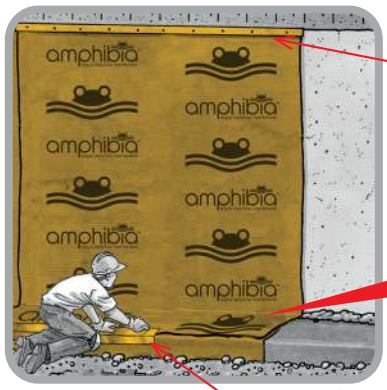
**Gravel nest**



**Formwork spacer**

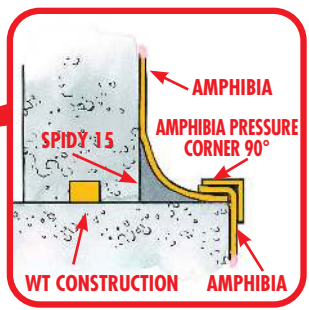
Surface preparation  
pg 31 - 33 

[2]



**AMPHIBIA  
PRESSURE LINE**

**AMPHIBIA  
PRESSURE CORNER**







# B Solution - POST-APPLIED INSTALLATION

[1]



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

**PLASTIVO 180**

15 kg + 5 kg

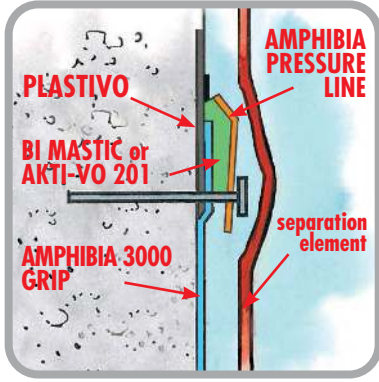
[2]



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

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

[2]





# SEALING JOINTS

## WT PANEL



**Horizontal joints**

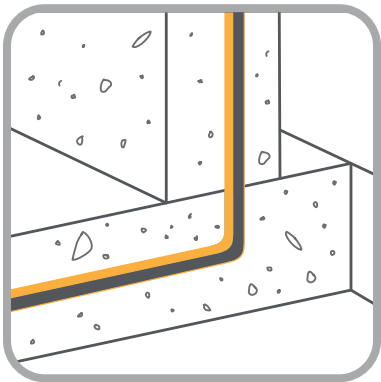


**Intermediate slabs**

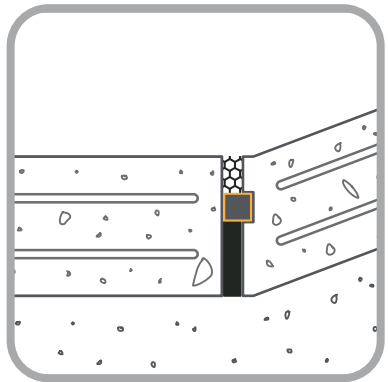


[www.volteco.com](http://www.volteco.com)

## WT EXPANSION



**Connection with existing structures**



**Ramp**

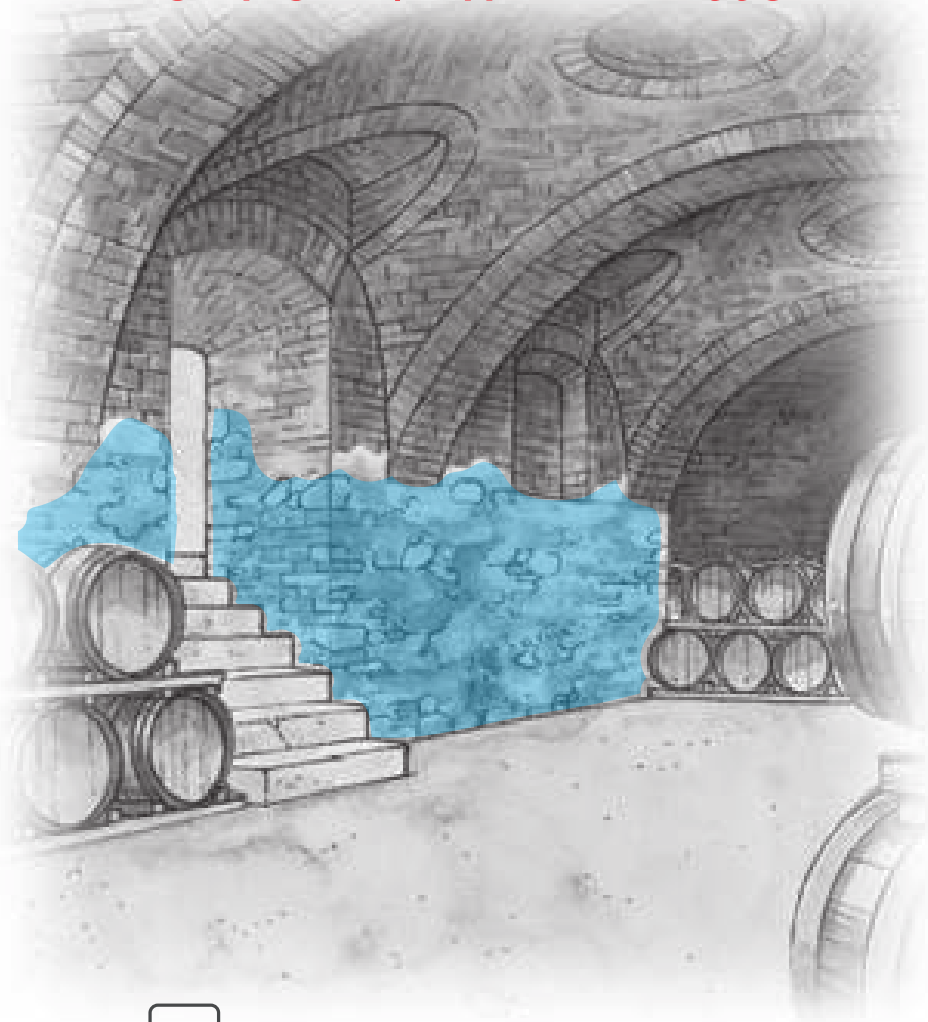


[www.volteco.com](http://www.volteco.com)





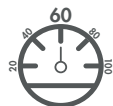
# WATERPROOFING OF MIXED STRUCTURES SUBJECTED TO NEGATIVE WATER PRESSURE



[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]



3'+2'

H2O control

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

kg 25

**BI MORTAR PLASTER SEAL**

## A Solution - APPLICATION WITHOUT MESH

[3]



1,5 cm



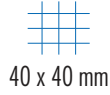


# B Solution - APPLICATION WITH MESH

[1]



1 mt x 30 mt  
**REVOMAT**



300 ml  
**BI FIX 300**

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



**STEEL CONNECTORS**

[2]



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

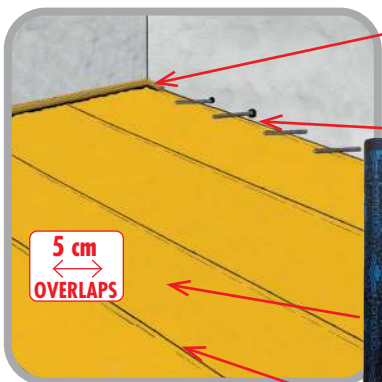
[1]



Cleaning

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

[2]



5 cm  
OVERLAPS

**WT CONSTRUCTION**



m 21/m 30

= 10 x 10 mm x 3.2 m

**AKTI-VO 201**



320 cc

**CE AMPHIBIA 3000 GRIP**

UNI EN 13967 180 x 2000 cm / 90 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]



3' + 3'



www.volteco.com

 = 19 kg/m<sup>2</sup>

**BI MORTAR LEVELLING SEAL**

[2]



 > 2 cm / < 4 cm





# SEALING OF CORNERS AND JOINTS



BI BOND

BI FLEX H.10 - H.20



Movement joint

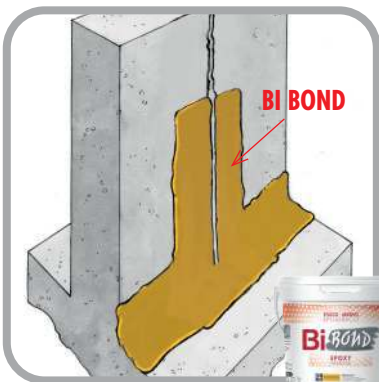







Crack





Structural joint

[1]



2'

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








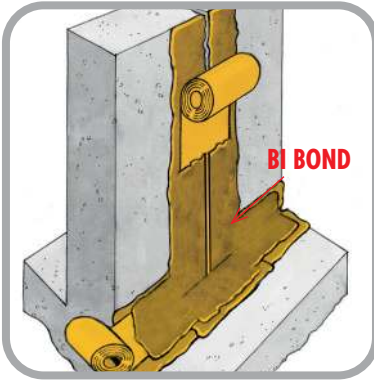
[2]



 = 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]



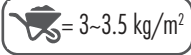
	<b>BI FLEX H.10</b>		<b>BI FLEX H.20</b>	
<b>Thickness</b>	0.5 mm	1 mm	1 mm	1.5 mm
<b>Length</b>	40 m	20 m	20 m	15 m
<b>Width</b>	10 cm		20 cm	
<b>Positive pressure water resistance on open joint (2 cm)</b>	1.5 bar	3 bar	3 bar	> 3 bar
<b>Negative pressure water resistance on open joint (2 cm)</b>	-	0.5 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]



PLASTIVO 180

15 kg + 5 kg

[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





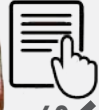
# Vertical waterproofing



OR



OPTIONAL



pg.69 ←

"NO CONDENSATION"



1,5 cm



>1/<2 cm



>1/<2 cm

# Horizontal waterproofing



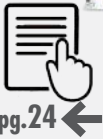
+



# Flexible waterproofing



+



1 mm



1 mm





A sheet of white paper with horizontal dotted lines, resembling a page from a notebook or a template for a document. The paper is oriented vertically and has a red tab on the left side. The dotted lines are arranged in approximately 15 rows, providing a guide for writing.

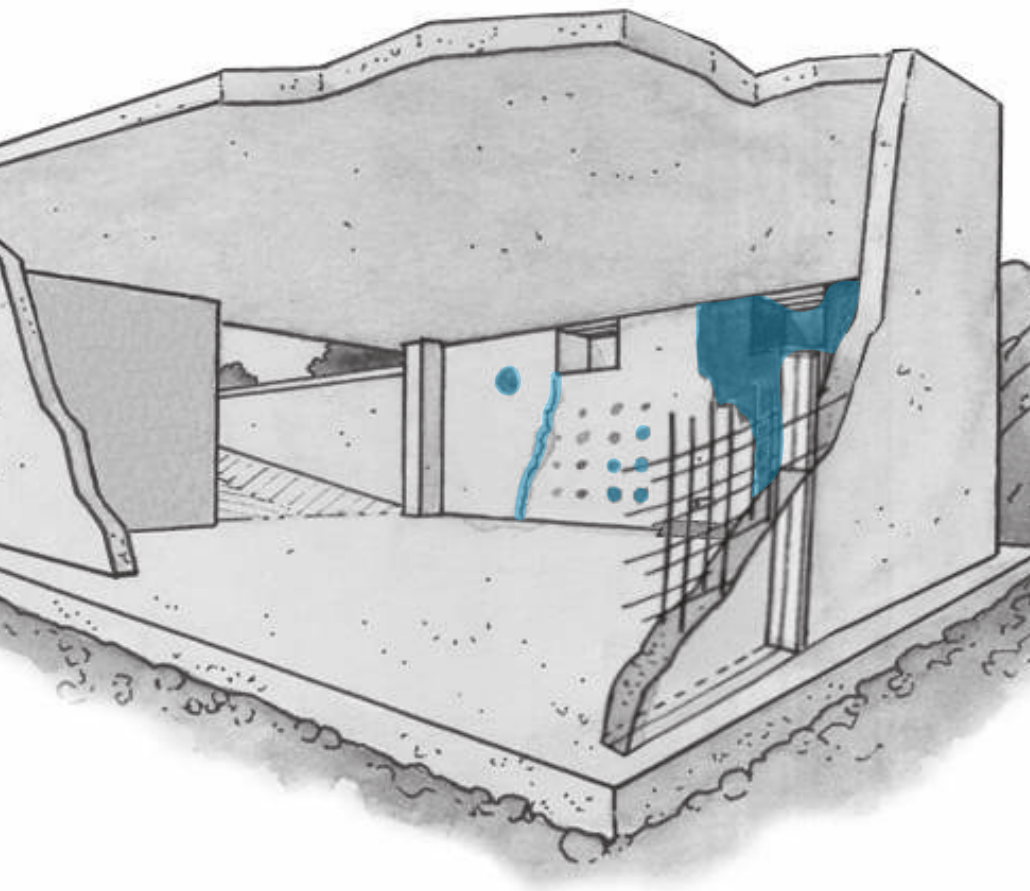


# REPAIR OF CONCRETE STRUCTURES SUBJECT TO NEGATIVE WATER PRESSURE



pg.29

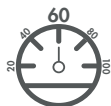
WATERPROOFING OF BASEMENTS



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## INDICATIVE WORKING PROCEDURE

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



## APPLICATION CONDITIONS

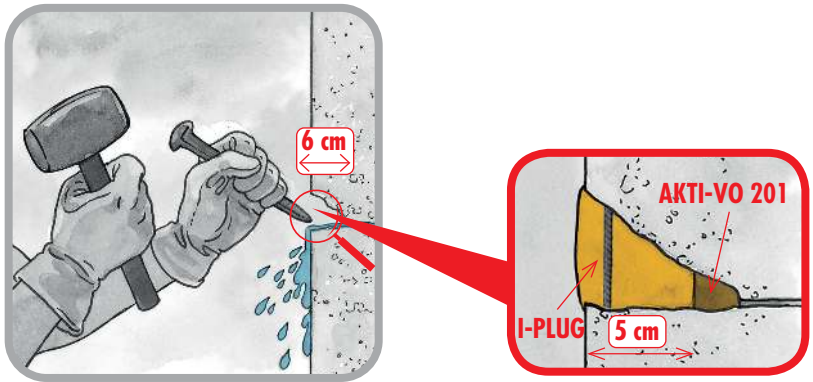
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



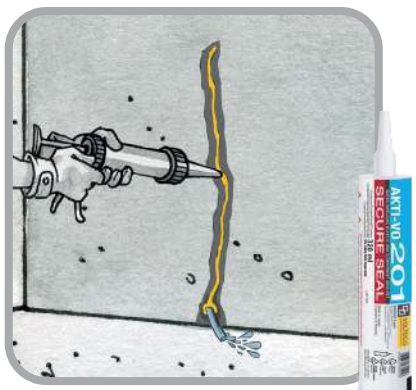


# PRESSURIZED WATER LEAKAGES

[1]



[2]

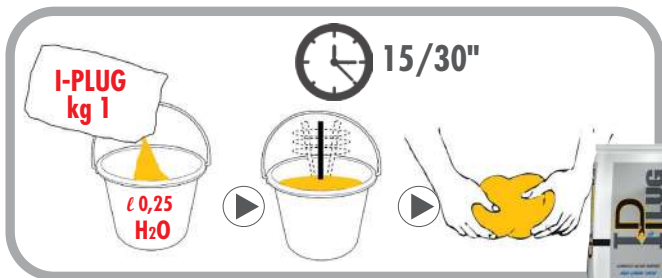


 = 10 x 10 mm x 3.2 m

**AKTI-VO 201**

320 cc

[3]



**I-PLUG**



10kg

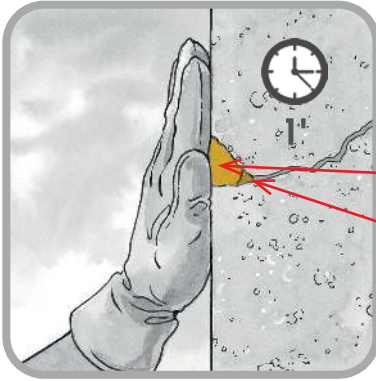


20 kg

**TAP 3**



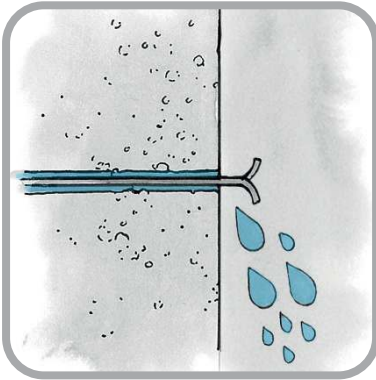
[4]



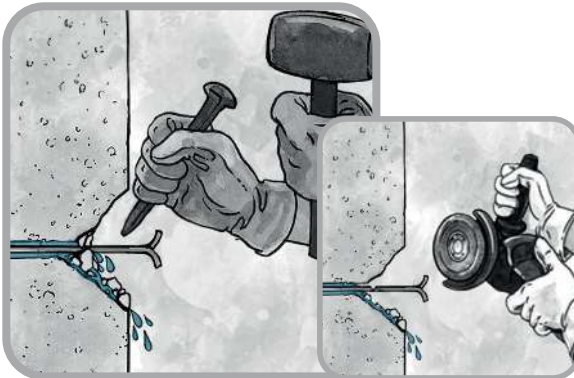
I-PLUG/TAP 3

AKTI-VO 201

### FORMWORKS SPACERS



[1]



[2]



Cleaning

[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



3'

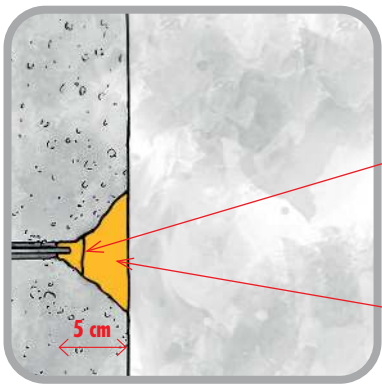
= 19 kg/m<sup>2</sup> x 1 cm

SPIDY 15





[5]

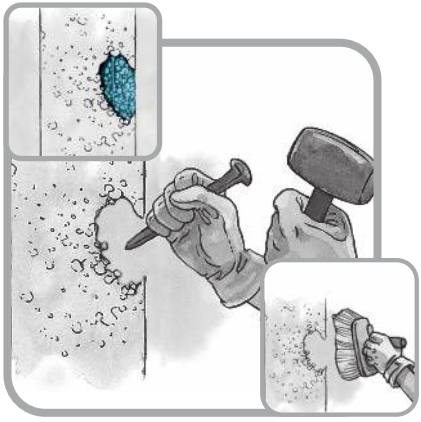


AKTI-VO 201

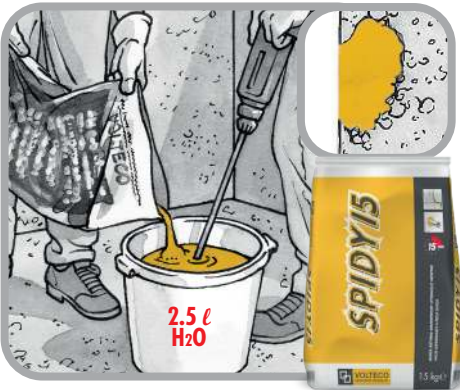
SPIDY 15

**GRAVEL NESTS**



[1]



[2]



3'

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

**SPIDY 15**

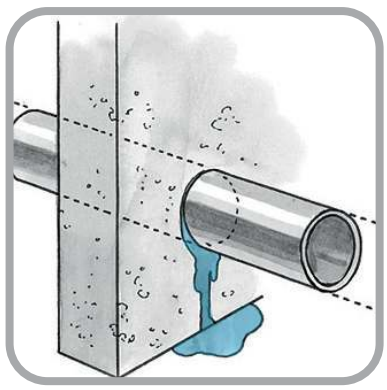
15 kg



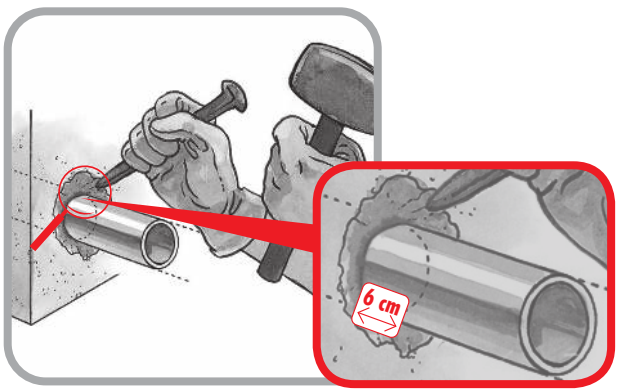


# PENETRATIONS SEALING

[1]



[2]



[3]



= 10 x 10 mm x 3.2 m

**AKTI-VO 201**

320 cc







[3]



3'

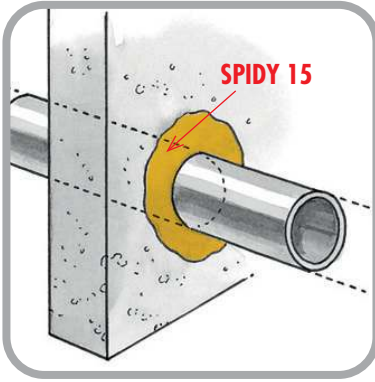


15 kg

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

SPIDY 15

[4]





# CRACKS AND JOINTS



**Movement joint**

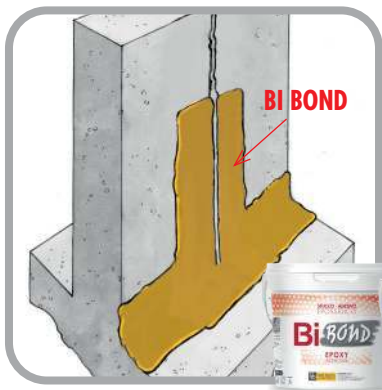


**Crack**



**Structural joint**

[1]





**BI BOND**



2'



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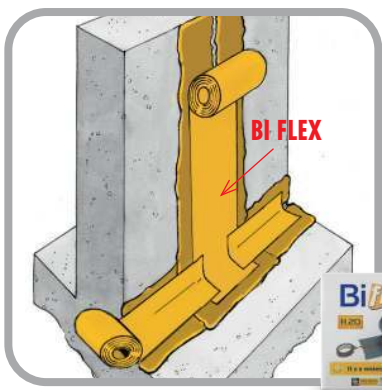
 = 1 kg **BI BOND** x 1 m **BI FLEX (H.20)**  
 = 0.6 kg **BI BOND** x 1 m **BI FLEX (H.10)**



**BI BOND**

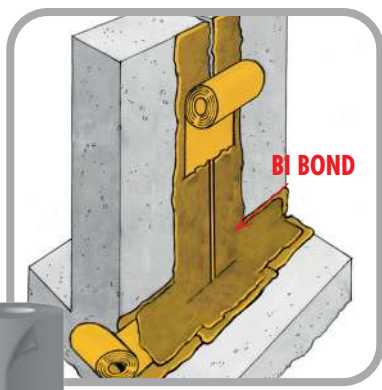
5 kg + 5 kg

[2]



**BI FLEX**

[3]



**BI BOND**



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

See specification pg. 24





# A Solution - FLEXIBLE WATERPROOFING

[1]



UNI EN 1504-2



UNI EN 14891

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



**PLASTIVO 180**

15 kg + 5 kg

[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



 = 2.5~3 kg/m<sup>2</sup>

**BI MORTAR CONCRETE SEAL**

[2]

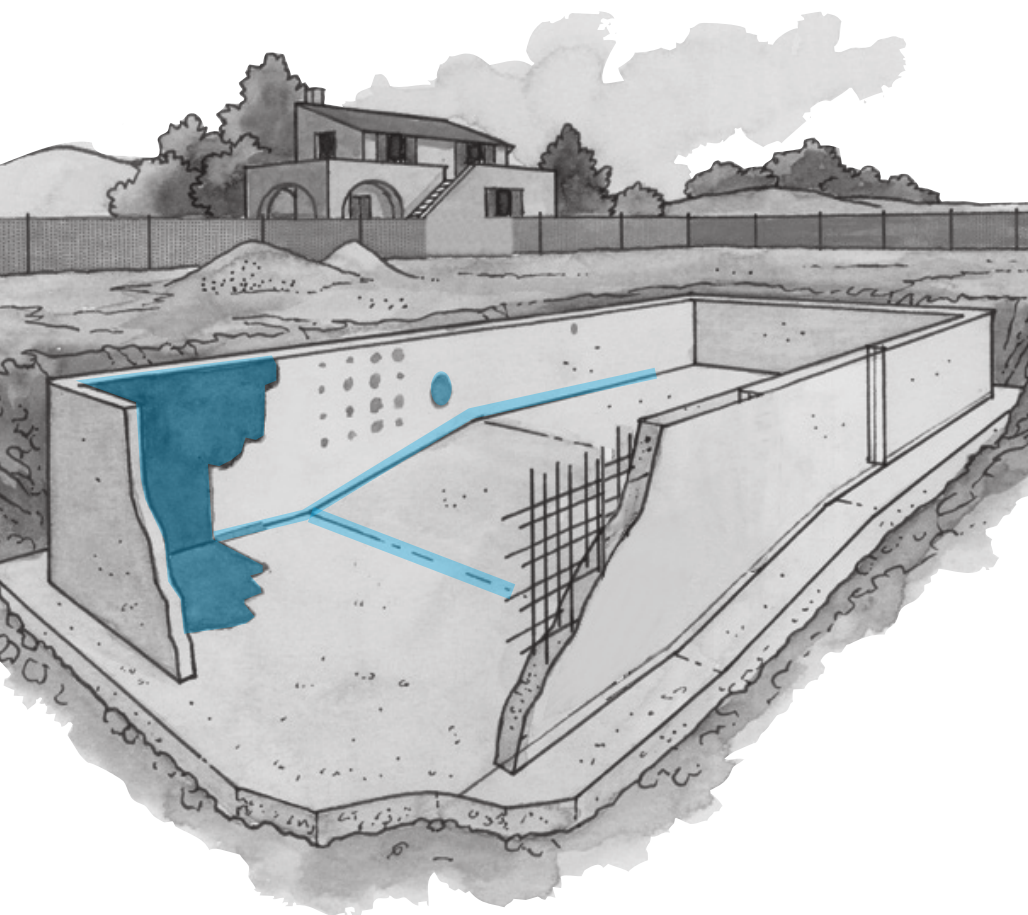


1<sup>st</sup> layer  1 mm

2<sup>nd</sup> layer  8 h  1 mm



# POOLS AND TANKS



pg.39

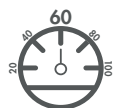
WATERPROOFING OF POOLS AND TANKS



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## INDICATIVE WORKING PROCEDURE

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

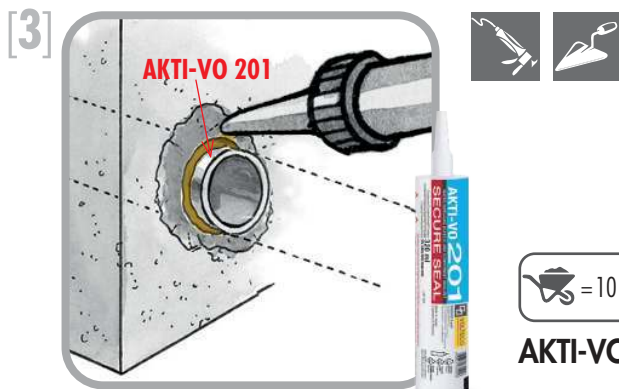
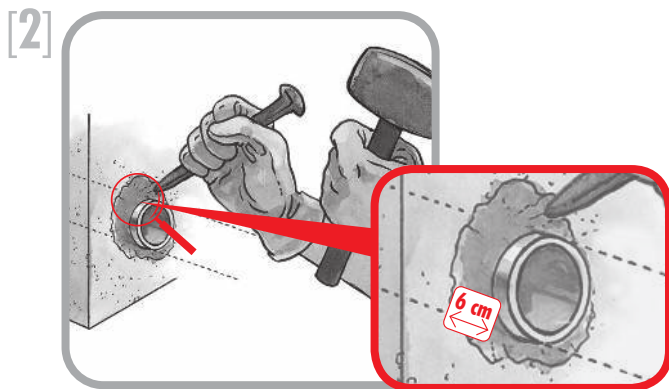
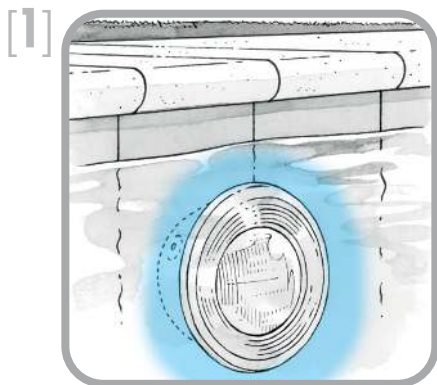



## APPLICATION CONDITIONS

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



## LIGHTS AND PENETRATIONS SEALING



 = 10 x 10 mm x 3.2 m

**AKTI-VO 201**

320 cc







[4]



3'



15 kg

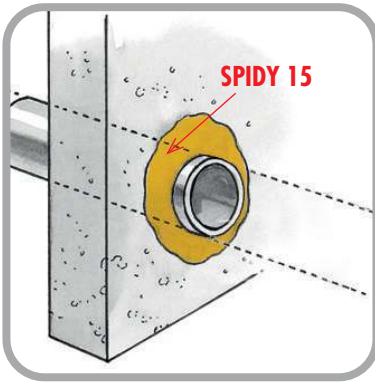
 = 19 kg/m<sup>2</sup> x  < 1 cm

SPIDY 15

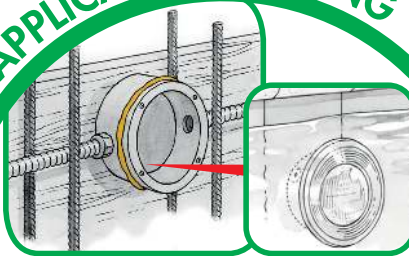


pg.41

[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)**

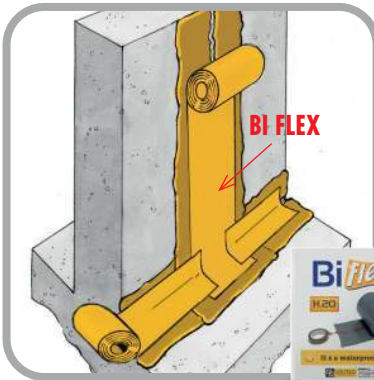
= 0.6 kg **BI BOND** x 1 m **BI FLEX (H.10)**



5 kg + 5 kg

**BI BOND**

[2]



**BI FLEX**

**BI FLEX H.10 - H.20**  
See specification and application pg. 24



## FLEXIBLE WATERPROOFING

[1]



Cleaning



[2]



3' ~ 5'



15 kg + 5 kg



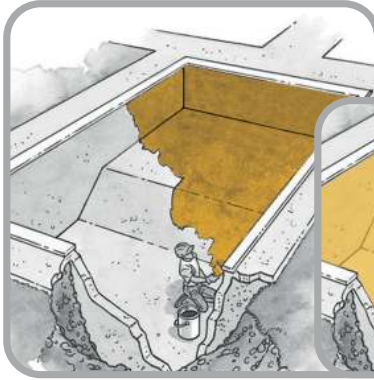
= 3~3.5 kg/m<sup>2</sup>

**PLASTIVO 180**



pg.43

[3]



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

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



**OPTIONAL**



1 mm



2h



1 mm

Tiling



16h

WATERPROOFING OF POOLS AND TANKS



# WATERPROOFING & FINISHING

[1]



Cleaning

[2]



3'

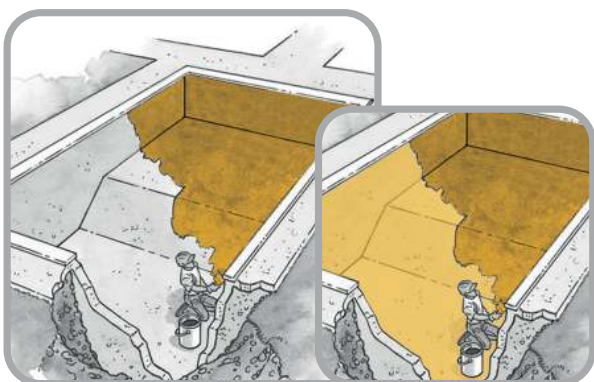


= 2.5-3 kg/m<sup>2</sup>

**BI MORTAR CONCRETE SEAL**

20 kg

[3]



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

2<sup>nd</sup> layer 8 h 1 mm



# FINISHING

[1]



$\text{= } 1.85 \text{ kg/m}^2 \rightarrow \left| \left| \leftarrow 1 \text{ mm} \right. \right.$

**BI MORTAR RASO SEAL**

20 kg + 5 kg

[2]



**1<sup>st</sup> layer**  $\rightarrow \left| \left| \leftarrow 3 \text{ mm} \right. \right.$

**2<sup>nd</sup> layer**  12 h

$\rightarrow \left| \left| \leftarrow 3 \text{ mm} \right. \right.$



1 mm



1 mm



3 mm



trowel finishing



marbling effect



# INTERNAL AREAS WATERPROOFING

## PRELIMINARY OPERATIONS



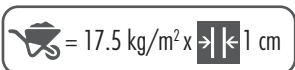
[1]



Cleaning



[2]



**FIBROeRASO**

20 kg



pg.47

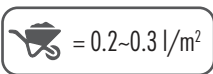
[3]



[4]



**OPTIONAL**



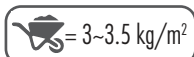
**PROFIX 30**

5l-25l



# JOINTS COVERS / PROFILES

[1]



**PLASTIVO 180**

15 kg + 5 kg

[2]



**AQUASCUD JOIN BT**

10 cm x 20 m





# UNDER TILING WATERPROOFING

[1]



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



**OPTIONAL**



 1 mm



2 h

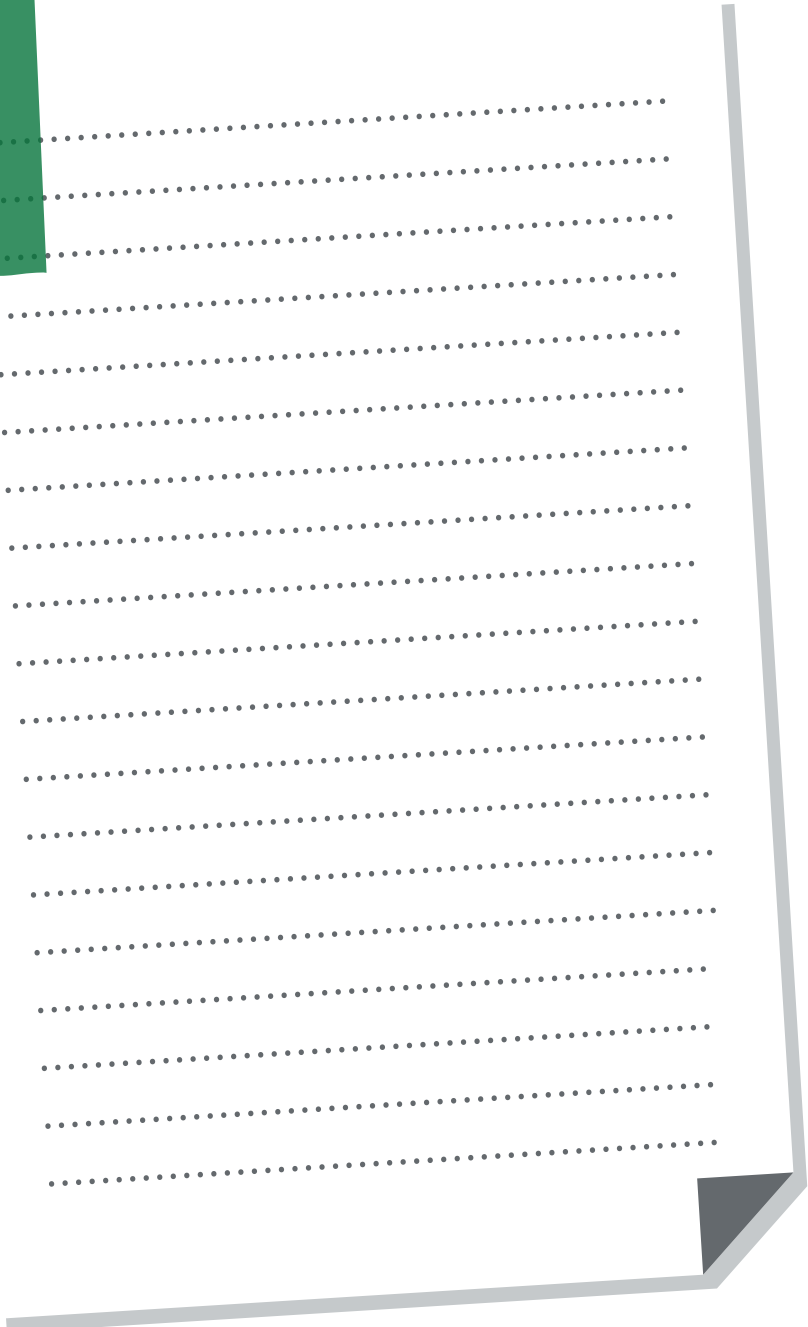


 1 mm

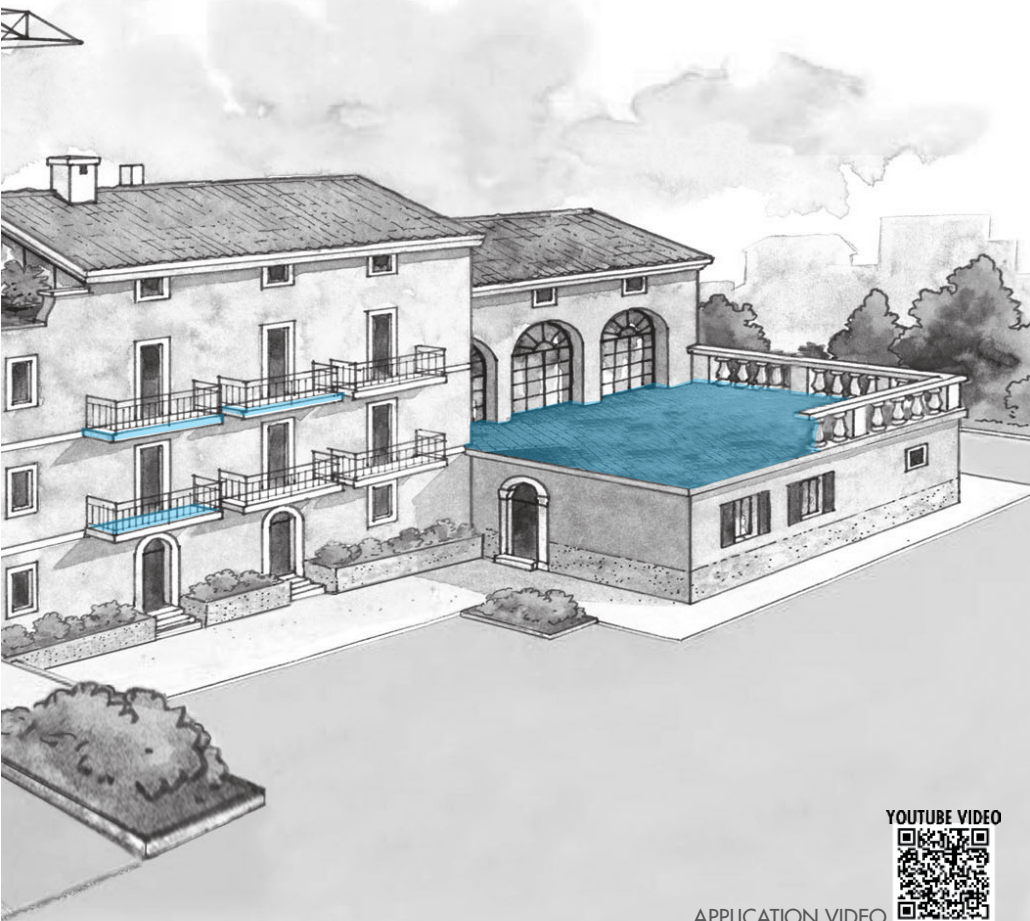




A series of 15 horizontal dotted lines for writing, arranged in a slightly curved pattern across the page.



# WATERPROOFING OF TERRACES, BALCONIES AND FLAT ROOFS



pg.51

YOUTUBE VIDEO



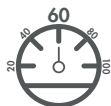
APPLICATION VIDEO



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## 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%

TERRACES, BALCONIES AND FLAT ROOFS



# TERRACES WATERPROOFING

## PRELIMINARY OPERATIONS

[1]



Cleaning

[2]



3' + 3'

H<sub>2</sub>O control



EN 1504-3  
CLASSE R3



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



FLEXOMIX 30


25 kg

[3]



[4]



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

**PROFIX 30**

5 l - 25 l

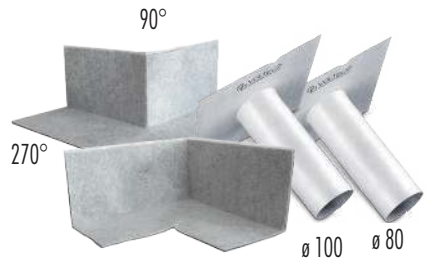
[5]



**AQUASCUD BASIC**

30 m x 1 m

[6]



**ANGULARS & DRAINPIPE FITTING**



[7]



2' ~ 3'



= 3,6~4 kg/m<sup>2</sup>

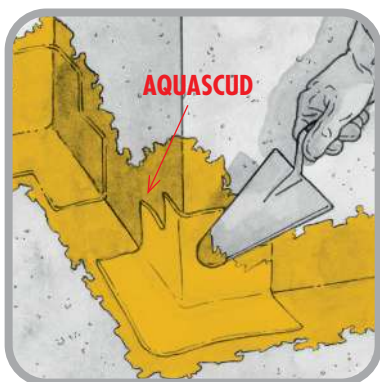


15 kg + 5.7 kg

**AQUASCUD 420**

## CORNERS JOINTS COVERS

[1]



270°

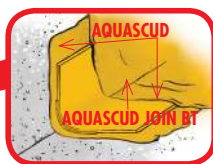
90°



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

90° - 270°

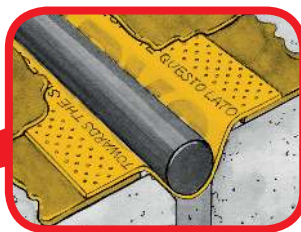
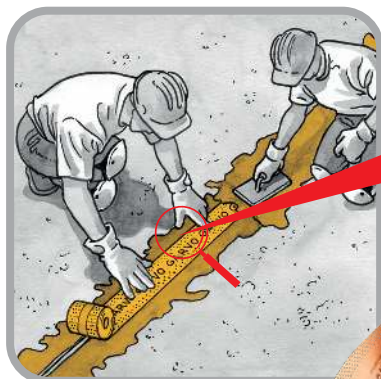
[2]



**AQUASCUD JOIN**  
10 cm x 25 m



[3]



**GARVO 5**  
15 cm x 20 m

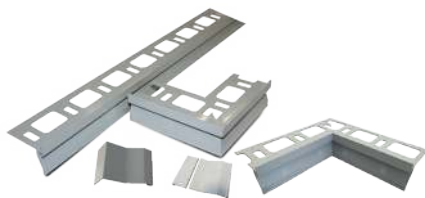
[4]



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

## DRAINING PROFILES

[1]



**AQUASCUD LINE**



pg.55



## FLEXIBLE WATERPROOFING

[2]



1<sup>st</sup> layer ⇒|⇐ 1~1.5 mm



**AQUASCUD 420**

[3]



10 cm



**AQUASCUD BASIC**

[4]



7 kg





[5]



[6]



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

## FINISHING WITH REFLECTING ELASTIC COATING



= 0.6~0.7 kg/m<sup>2</sup>



AQUASCUD REFLEX



1<sup>st</sup> layer 0.6 mm    2<sup>nd</sup> layer 12 h 0.6 mm



+



+



1 mm



1~1.5 mm



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pg.57

TERRACES, BALCONIES AND FLAT ROOFS



# BALCONIES WATERPROOFING

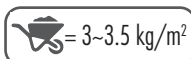
PRELIMINARY OPERATIONS see pg. 52

## CORNERS JOINTS COVERS

[1]



3' ~ 5'

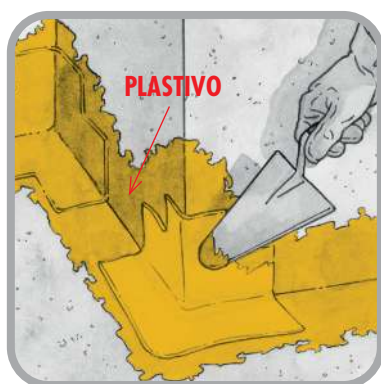


= 3~3.5 kg/m<sup>2</sup>

PLASTIVO 180

15 kg + 5 kg

[2]



270°



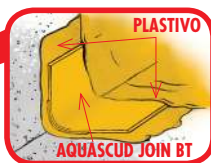
90°



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



[3]



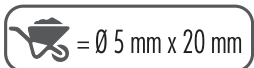
**AQUASCUD JOIN**  
10 cm x 25 m

**DETAILS FOR DOORS / DRAINAGE**

[4]



600 cc



**BI MASTIC**

[5]



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



## FLEXIBLE WATERPROOFING

[1]



1<sup>st</sup> layer → ← 1 mm



PLASTIVO 180

## ELASTIC MESH

[2]



OPTIONAL



FLEXONET/XNET



pg.60

TERRACES, BALCONIES AND FLAT ROOFS



[3]



2<sup>nd</sup> layer ⌚ 2 h ⇄ 1 mm

[4]



16 h



pg.61



OPTIONAL



24 h



OPTIONAL



+



⇄ 1 mm



OPTIONAL



2 h



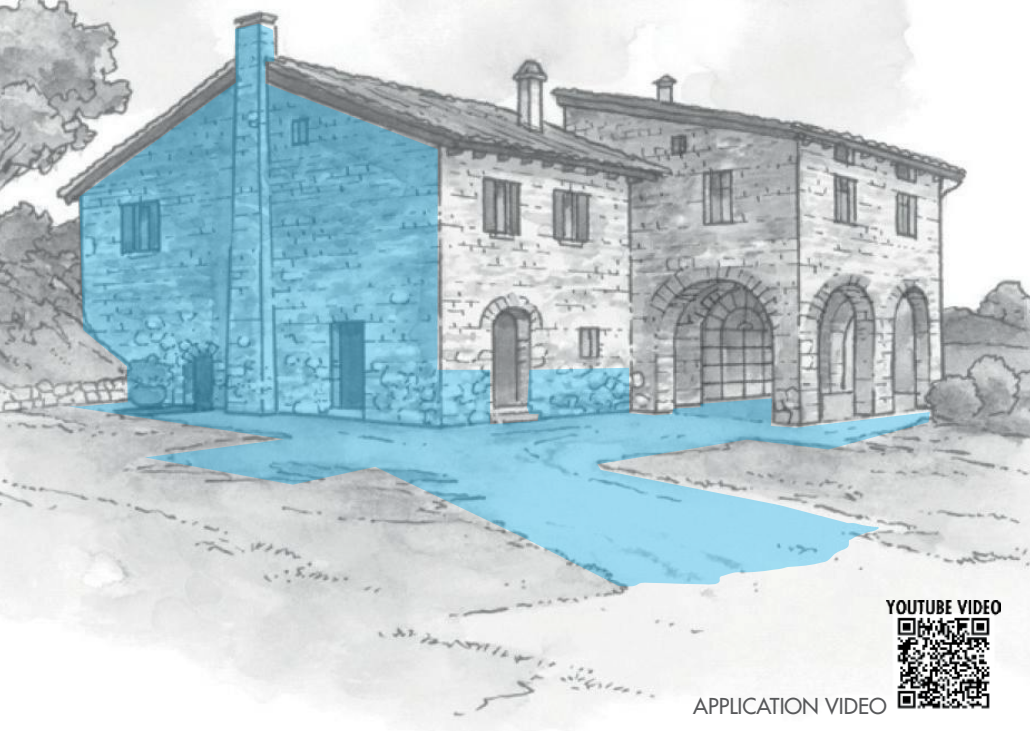
⇄ 1 mm

TERRACES, BALCONIES AND FLAT ROOFS





# TREATMENT OF DAMP WALLS



YOUTUBE VIDEO



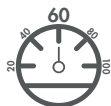
APPLICATION VIDEO



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

## INDICATIVE WORKING PROCEDURE

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## APPLICATION CONDITIONS

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TEMPERATURE +20°C, HUMIDITY 60%

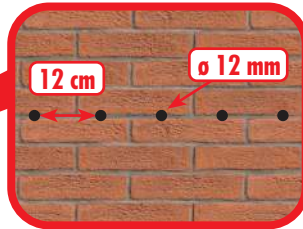
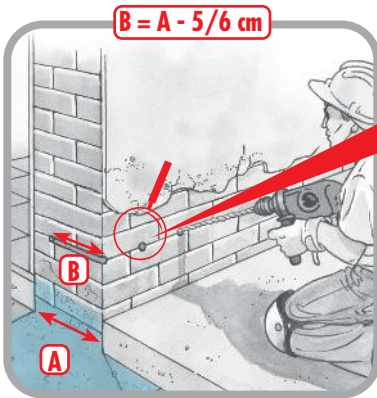


# PRELIMINARY OPERATIONS

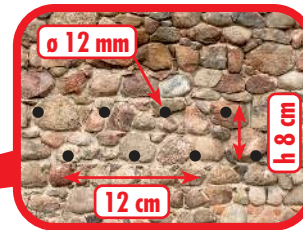
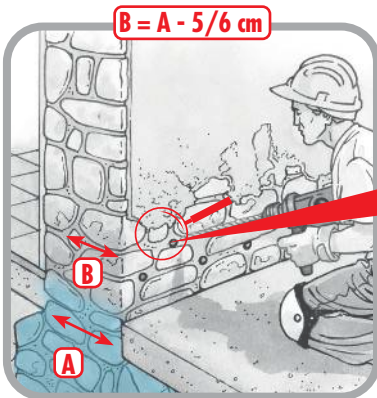
[1]



[2a]



[2b]

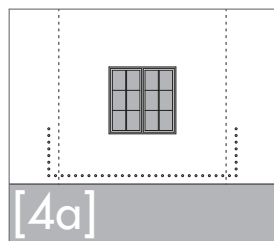




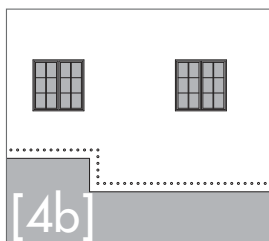
# HYDROPHOBIC BARRIER



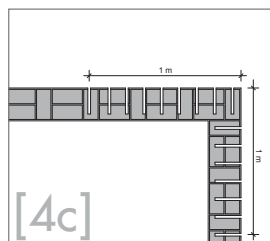
**TRIPLEZERO**



**[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**



[2]



**ROUGH ADHESION COAT**

[1]



3'~5'

H2O control

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

**CALIBRO RINZAFFO**

25 kg

[2]



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

**ANTI-CONDENSATION PLASTER**

[1]



5'

H2O control



UNI EN 998-1  
CLASSE R

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

**CALIBRO P.E. INTONACO**

20 kg



[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



20 kg



3'~5'

= 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



>5 mm



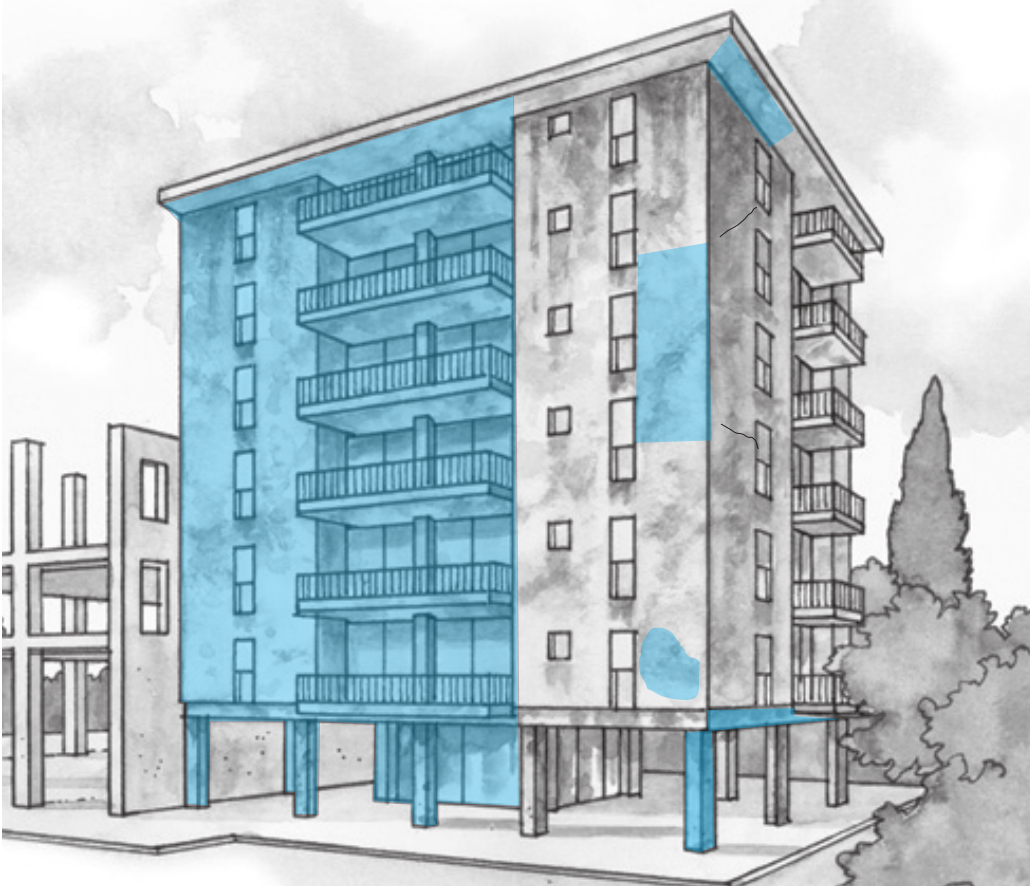
14 days



>2 cm



# FACADES PROTECTION (CONCRETE AND MASONRY)



YOUTUBE VIDEO



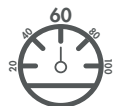
APPLICATION VIDEO



[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'



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

**SANOFER**

1 kg

[3]



0.2~ 0.3 micron



## STRUCTURAL REPAIR

[1]



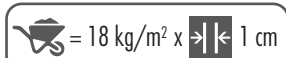
3'+3'



H<sub>2</sub>O  
control



UNI EN 1504-3  
CLASSE R4



= 18 kg/m<sup>2</sup> x  $\left| \right| \left| \right|$  1 cm

**FIBROMIX 40**

25 kg

[2]



5 mm~3 cm

FACADES PROTECTION



pg.73



## STRUCTURAL REPAIR AND SMOOTHING

[1]




20 kg



2'~3'



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

FIBROeRASO

[2]



1 mm~40 mm



Finishing

## STRUCTURAL REPAIR

[1]



25 kg



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

**FLEXOMIX 30**

[2]



< 2 cm

[3]



Finishing

## ANTI-CARBONATION PROTECTION

[1]



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PROFIX 20

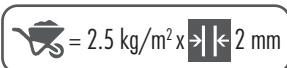


PROFIX 30

[2]



2'



CPI

15 kg + 5.7 kg

[3]



FLEXONET/XNET

[4]



1<sup>st</sup> layer →|← 1.5 mm

CPI

[5]



FLEXONET/XNET

[6]



2<sup>nd</sup> layer ⌚ 4 h →|← 0.5 mm

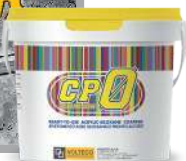
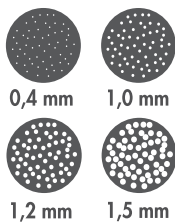


# FINISHING

[1]

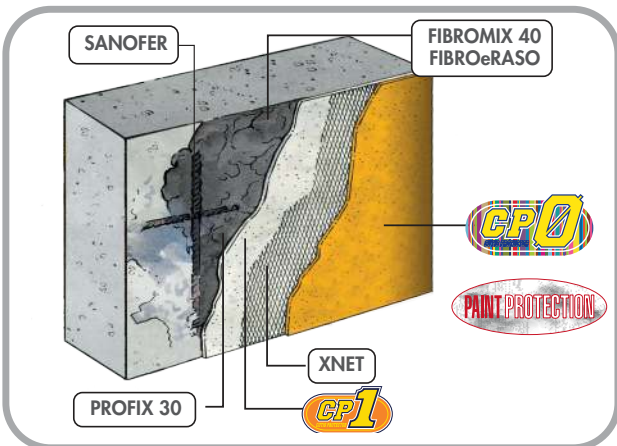
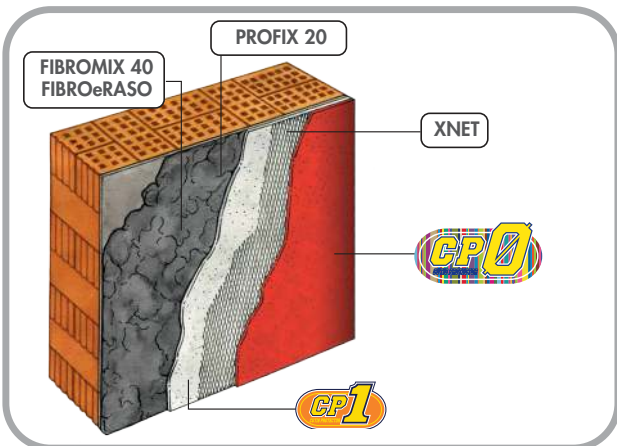


CPO



25 kg

	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>





# PAINTING

CE  
UNI EN 15042

ANTI-CARBONATION

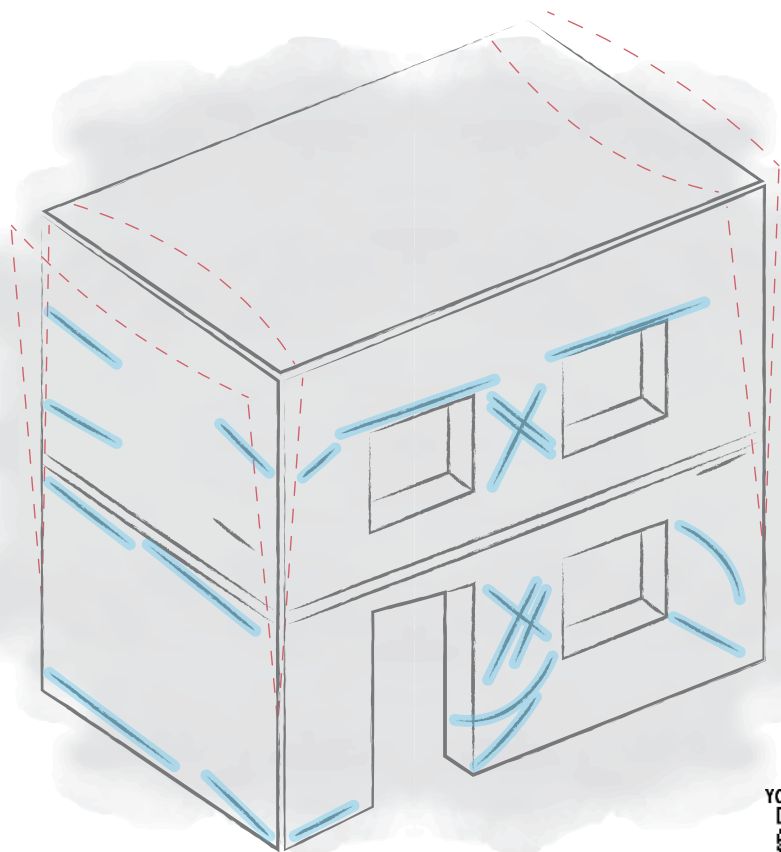


BREATHABLE





# STRUCTURAL REINFORCEMENT AND SEISMIC IMPROVEMENT



APPLICATION VIDEO

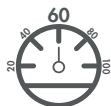
YOUTUBE VIDEO



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## INDICATIVE WORKING PROCEDURE

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



## APPLICATION CONDITIONS

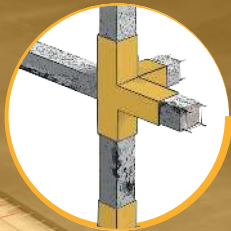
PERFORMANCES, TIMING AND APPLICATION METHODS ARE REFERRED TO GENERAL CONDITIONS:  
TEMPERATURE +20°C, HUMIDITY 60%



**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

**1<sup>st</sup> SEQUENCE** 7 kg B + 25 kg A + 25 kg A

**2<sup>nd</sup> SEQUENCE** 7 kg B + 25 kg A + 25 kg A

[2]



5 kg Comp. C



6'



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**FIBRO STEEL**

5 kg comp. C

**3<sup>rd</sup> SEQUENCE** 5 kg C

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

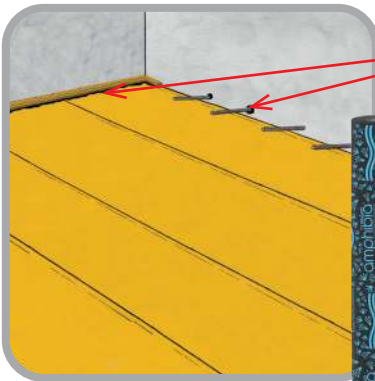
[1]



Cleaning

Sealing construction joints and rebars with WT 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



**WT CONSTRUCTION**

m 21

m 30

[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]



7 days





## BEAMS AND PILLARS

### CORROSION TREATMENT

[1]



[2]



2'



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

**SANOFER**

1 kg

[3]

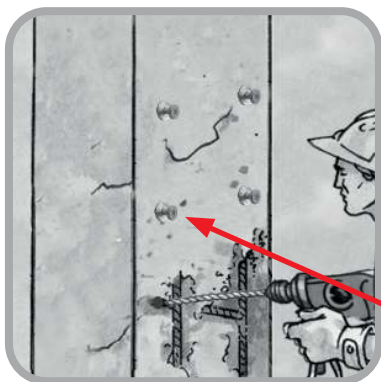


0.2~ 0.3 micron



## REINFORCEMENT OF PILLARS AND BEAMS

[1]



300 ml



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

**BI FIX 300**



**STEEL CONNECTORS**

[2]

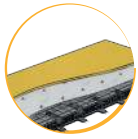


**FIBRO HFR / FIBRO STEEL**  
See preparation pg. 81



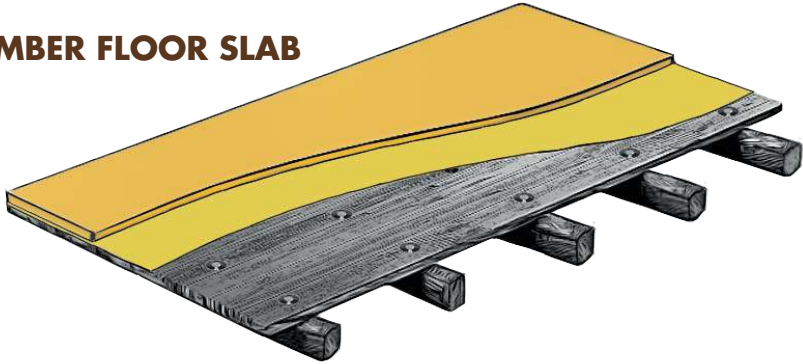
7 days



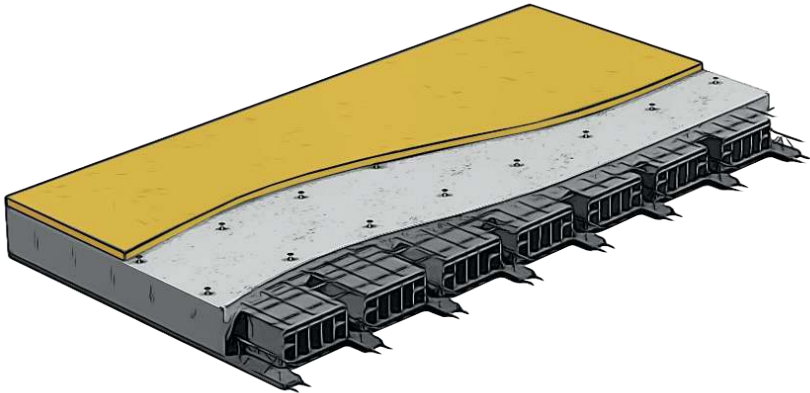


# MIXED FLOORS

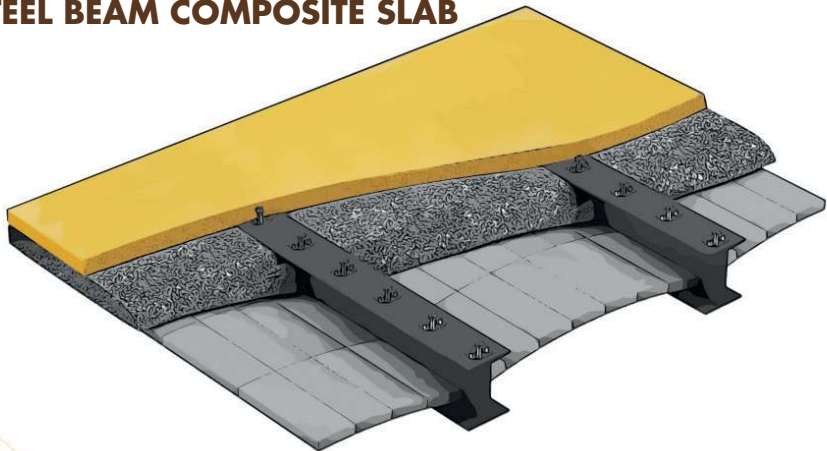
## TIMBER FLOOR SLAB



## HOLLOW BRICK AND CONCRETE SLAB



## STEEL BEAM COMPOSITE SLAB





# PROTECTION OF WOODEN SURFACES

[1]



15 kg + 5 kg



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

**PLASTIVO 180**

[2]



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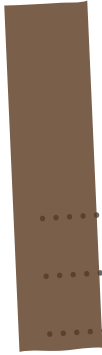
[3]



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



# Note

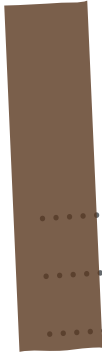


A series of 15 horizontal dotted lines for writing, arranged in a slightly curved pattern across the page.





# Note



A series of 15 horizontal dotted lines for writing, arranged in a slightly curved pattern across the page. The lines are evenly spaced and extend across most of the width of the page.



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## WATERPROOFING OF POOLS AND TANKS



## WATERPROOFING OF TERRACES AND BALCONIES



## TREATMENT OF DAMP WALLS



## RESTORATION AND PROTECTION OF FACADES



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**VOLTECO**  
WATERPROOF TECHNOLOGY

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  
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