

# Admixtures for concrete





## ADMIXTURES FOR CONCRETE

A complete range of admixtures for producers of concrete, offering the best solutions to tackle the challenges of both technological innovation and routine production, in full compliance with international standards, while guaranteeing the highest possible standards of quality.

**MAPEI** admixtures have been produced since 1992 and have deservedly earned the respect of producers and contractors all over the world. This is attributed to their exceptional performance characteristics under all operating conditions and the prompt on-site assistance offered by dedicated technical specialists in any part of the world. And in addition, the continuous evolution of products and technology, developed and manufactured in **MAPEI**'s own Research and Development laboratories.

**C E** *MAPEI admixtures for concrete meet all the essential requirements for the "Directive 89/106/CEE regarding products for construction use", they have the "CE" seal of approval and are also certified according to specialist European standards.*

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## CE MARKING FOR ADMIXTURES

**MAPEI**, always involved in quality improvement and compliance with the most advanced norms, already **ISO 9001** and **ISO 14001** certified, has immediately obtained the certificate of conformity to **EN 934-2** and **932-4** Norms. Therefore MAPEI can **CE** mark all its plasticisers and superplasticisers for mortars and concrete.

Since the admixtures for concrete can have extremely different performances and usage, the norm has 12 different classification categories, different tests and minimum performance levels for every single admixture type.

ADMIXTURE	CLASSIFICATION	TABLE
<b>WR</b>	Water reducing / plasticising admixture	Table 2
<b>HRWR</b>	High range water reducing / superplasticising admixture	Table 3
<b>WRA</b>	Water retaining admixture	Table 4
<b>AEA</b>	Air entraining admixture	Table 5
<b>SAA</b>	Set accelerating admixture	Table 6
<b>HAA</b>	Hardening accelerating admixture	Table 7
<b>SRA</b>	Set retarding admixture	Table 8
<b>WRA</b>	Water resisting admixture	Table 9
<b>WR + SRA</b>	Set retarding / water reducing / plasticising admixture	Table 10
<b>HRWR + SRA</b>	Set retarding / high range water reducing / superplasticising admixture	Table 11
<b>WR + SAA</b>	Set accelerating / water reducing / plasticising admixture	Table 12

Admixtures that also have important secondary functions can also obtain the certification for two or more categories at the same time. This way the effects of the admixture on concrete, both during the fresh state and hardened, will be able to be studied.

In order to see if the products meet the requirements, the specific tests for each type of admixture must be carried out:

- *when the certificate is first issued;*
- *when a new formula or type of admixture is developed;*
- *when a modification of the formula could significantly influence the admixture's performances;*
- *when a modification of the raw material could significantly influence the admixture's performances.*

The following table lists the classification of **MAPEI** admixtures for concrete, the abbreviations and the norm table that defines the minimum requirements.





**ADMIXTURES FOR CONCRETE EN 934-2 NORM : May 2002**

ADMIXTURE	CLASSIFICATION	TABLE
ANTIFREEZE (liquid)	HAA	7
ANTIFREEZE S (liquid)	HAA	7
ANTIFREEZE S (Powder)	HAA	7
CHRONOS VF 131	HRWR + SRA	11
CHRONOS VF 136	HRWR + SRA + HAA	11 + 7
CHRONOS VF 202	HRWR + SRA	11
CHRONOS VF 204	HRWR + SRA	11
DYNAMON EASY 11	HRWR	3
DYNAMON EASY 21	HRWR + SRA	11
DYNAMON EASY 31	HRWR + SRA	11
DYNAMON FLOOR 1	HRWR + SAA	3 + 6
DYNAMON FLOOR 2	HRWR	3
DYNAMON HAA	HAA	7
DYNAMON NRG 100	HRWR + HAA	3 + 7
DYNAMON NRG 100 M	HRWR + HAA	3 + 7
DYNAMON NRG 200	HRWR + HAA	3 + 7
DYNAMON NRG 205	HRWR + HAA	3 + 7
DYNAMON NRG 300	HRWR + HAA	3 + 7
DYNAMON SP1	HRWR + HAA	3 + 7
DYNAMON SP3	HRWR + HAA	3 + 7
DYNAMON SP5	HRWR + HAA	3 + 7
DYNAMON SR1	HRWR	3
DYNAMON SR2	HRWR + SRA	11
DYNAMON SR3	HRWR + SRA	11
DYNAMON SR4	HRWR + SRA	11
DYNAMON SR21	HRWR	3
DYNAMON SR23	HRWR	3
DYNAMON SR31	HRWR + SRA	11
DYNAMON SR31	HRWR + SRA	11
DYNAMON SR41	HRWR + SRA	11
DYNAMON SX	HRWR	3
DYNAMON SX08	HRWR + HAA	3 + 7
DYNAMON SX12	HRWR + SRA + WRA	11 + 4
DYNAMON SX14	HRWR + SRA + WRA	11 + 4
DYNAMON SX18	HRWR + HAA + WRA	3 + 7 + 4
DYNAMON SX22	HRWR + SRA	11
DYNAMON SX24	HRWR	3
DYNAMON SX32	HRWR + SRA	11
DYNAMON SX34	HRWR	3
DYNAMON SX T1	HRWR + SRA	11
DYNAMON SX T2	HRWR + SRA	11
IDROCRETE DM	WrA	9
MAPEFLUID IF328	HRWR + HAA	3 + 7
MAPEFLUID N100	HRWR + SRA	11
MAPEFLUID N200	HRWR	3
MAPEFLUID PZ500	HRWR + WrA	3 + 9
MAPEFLUID PZ504	HRWR + SRA + WrA	11 + 9
MAPEFLUID R104	HRWR + SRA	11
MAPEFLUID R114	HRWR + SRA	11
MAPEMIX N60	WR	2
MAPEMIX R64	HRWR + SRA	11
MAPEPLAST N10	WR	2
MAPEPLAST PT1	AEA	5
MAPEPLAST PT2	AEA	5
MAPEPLAST R14	WR + SRA	10
MAPETARD	SRA	8
MAPETARD D	SRA	8
MAPETARD SD2000	SRA	8
VIBROMIX C1	WR + HAA	2 + 7
VIBROMIX C2	WR + HAA + WrA	2 + 7 + 9
VIBROMIX E	WrA	4
VIBROMIX L1	WR	2
VIBROMIX L2	WR	2
VIBROMIX L3	WR + WrA	2 + 9
VIBROMIX L4	WR	2
VIBROMIX P	WrA	4
VIBROMIX S	WrA	9

**ADMIXTURES FOR MORTARS EN 934-4 NORM : May 2002**

ADMIXTURE	CLASSIFICATION	TABLE
EXPANFLUID		1



# CHRONOS® (Chemically Reactive Nanostructural Superplasticisers) SUPER-PLASTICISERS

FOR CONCRETE, WITH EXCELLENT MAINTENANCE OF WORKABILITY



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>CHRONOS VF 131</b> Vinyl polymer-based super-plasticiser	0.8 -1.6%	ReadyMix Site use	★★★★	★★★★★	★★★
<b>CHRONOS VF 136</b> Vinyl polymer-based super-plasticiser	0.8 -1.6%	ReadyMix Site use	★★★★	★★★	★★★★★
<b>CHRONOS VF 202</b> Vinyl polymer-based super-plasticiser	0.6 -1.2%	ReadyMix Site use	★★★★	★★★★	★★★
<b>CHRONOS VF 204</b> Vinyl polymer-based super-plasticiser	0.6 -1.2%	ReadyMix Site use	★★★★	★★★	★★★★

## HIGH-PERFORMANCE SUPER-PLASTICISERS

FOR CONCRETE, WITH RAPID DEVELOPMENT OF MECHANICAL STRENGTH



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DYNAMON NRG 100</b> Acrylic-based super-plasticising accelerator	0.5 - 1.5%	Precast	★★★★★	★	★★★★★
<b>DYNAMON NRG 100 M</b> Acrylic-based super-plasticising accelerator	0.5 - 1.5%	Precast	★★★	★	★★★★
<b>DYNAMON NRG 200</b> Acrylic-based super-plasticising accelerator	0.5 - 1.5%	Precast	★★★★	★★	★★★★
<b>DYNAMON NRG 205</b> Acrylic-based super-plasticising accelerator	0.5 - 1.5%	Precast	★★★★	★★★	★★★
<b>DYNAMON NRG 300</b> Acrylic-based super-plasticising accelerator	0.5 - 1.5%	Precast	★★★★★	★★★	★★★
<b>DYNAMON SP1</b> Acrylic-based super-plasticising accelerator	0.6 - 1.2%	Precast Site use	★★★★	★★★★★	★★★
<b>DYNAMON SP3</b> Acrylic-based super-plasticising accelerator	0.6 - 1.2%	Precast	★★★★★	★★★	★★★
<b>DYNAMON SP5</b> Acrylic-based super-plasticising accelerator	0.6 - 1.2%	Precast	★★★★★	★★★	★★★
<b>DYNAMON SG40</b> Acrylic-based super-plasticising accelerator	0.6 - 1.2%	Precast Site use	★★★★	★★★★★	★★★



## HIGH-PERFORMANCE SUPER-PLASTICISERS

FOR CONCRETE, WITH EXCELLENT MAINTENANCE OF WORKABILITY

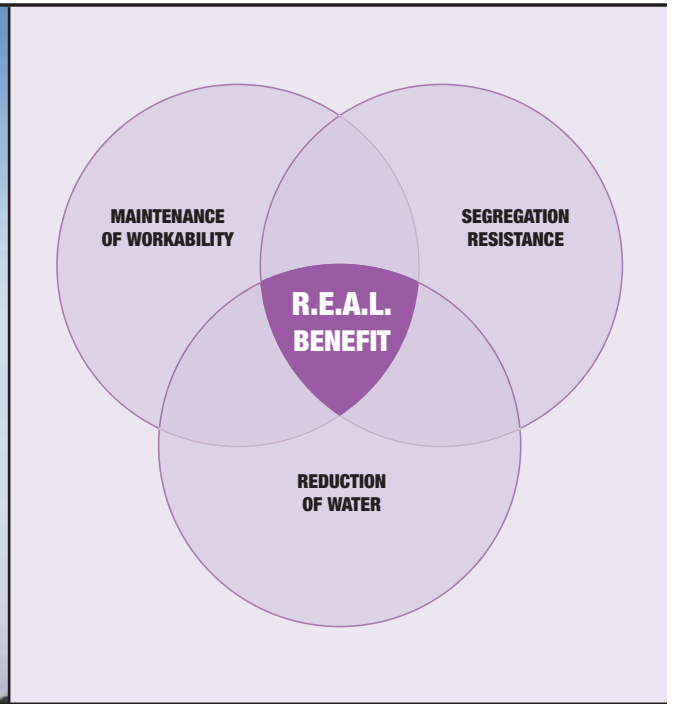


PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DYNAMON SR3</b> Acrylic-based super-plasticiser	0.5 -1%	ReadyMix Site use	★★★★	★★★★	★★
<b>DYNAMON SR4</b> Acrylic-based super-plasticising retardant	0.8 -1.5%	ReadyMix Site use	★★★	★★★★★	★
<b>DYNAMON SR21</b> Acrylic-based super-plasticiser	0.7 -1.5%	ReadyMix Site use	★★★★	★★	★★★
<b>DYNAMON SR23</b> Acrylic-based super-plasticiser	0.7 -1.5%	ReadyMix Site use	★★★	★★	★★★★
<b>DYNAMON SR31</b> Acrylic-based super-plasticiser	0.7 -1.7%	ReadyMix Site use	★★★★	★★★	★★★
<b>DYNAMON SR41</b> Acrylic-based super-plasticising retardant	0.7 -1.5%	ReadyMix Site use	★★★★	★★★★★	★★
<b>DYNAMON SX</b> Acrylic-based super-plasticiser	0.5 -2.0%	ReadyMix Site use	★★★★★	★★★	★★★
<b>DYNAMON SX08</b> Acrylic-based super-plasticising accelerator	0.5 -2.0%	ReadyMix Site use	★★★	★★	★★★
<b>DYNAMON SX T1</b> Acrylic-based super-plasticising retardant	0.7 -1.5%	ReadyMix Site use	★★★★	★★★★	★★
<b>DYNAMON SX T2</b> Acrylic-based super-plasticising retardant	0.7 -1.5%	ReadyMix Site use	★★★★	★★★★	★★



**R.E.A.L.**<sup>®</sup> (*Robustness Enhancing Admixture Line*)

**FOR PUMPED CONCRETE WITH NO SEGREGATION OR BLEEDING**



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DYNAMON SR1</b> Acrylic-based super-plasticiser	0.8 -1.5%	ReadyMix Site use	★★★★	★★★	★★
<b>DYNAMON SR2</b> Acrylic-based super-plasticising retardant	0.8 -1.5%	ReadyMix Site use	★★★	★★★★	★
<b>DYNAMON SX12</b> Acrylic-based super-plasticising retardant	0.5 -1.5%	ReadyMix Site use	★★★★	★★★★	★★
<b>DYNAMON SX14</b> Acrylic-based super-plasticiser	0.5 -1.5%	ReadyMix Site use	★★★★	★★★	★★★
<b>DYNAMON SX18</b> Acrylic-based super-plasticiser	0.8 -2.0%	ReadyMix Site use	★★★	★★	★★★★
<b>DYNAMON SX22</b> Acrylic-based super-plasticising retardant	0.5 -1.5%	ReadyMix Site use	★★★★	★★★★	★★
<b>DYNAMON SX24</b> Acrylic-based super-plasticiser	0.5 -1.5%	ReadyMix Site use	★★★★	★★★	★★★
<b>DYNAMON SX32</b> Acrylic-based super-plasticising retardant	0.5 -1.5%	ReadyMix Site use	★★★★	★★★★	★★
<b>DYNAMON SX34</b> Acrylic-based super-plasticiser	0.5 -1.5%	ReadyMix Site use	★★★★	★★★	★★★

## MULTI-PURPOSE SUPER-PLASTICISERS FOR FLOORS

FOR CONCRETE WITH GOOD WORKABILITY AND CONTROLLED TIMES FOR FLOAT FINISHING



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	FINISHING ACCELERATION
<b>DYNAMON FLOOR 1</b> Acrylic-based super-plasticising setting accelerator	0.8 -2.0%	ReadyMix Site use	★★★	★★	★★★★
<b>DYNAMON FLOOR 2</b> Acrylic-based super-plasticiser	0.8 -2.0%	ReadyMix Site use	★★★	★★★★	★★★



## MULTI-PURPOSE SUPER-PLASTICISERS

FOR CONCRETE WITH GOOD WORKABILITY



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DYNAMON EASY 11</b> Modified acrylic-based super-plasticiser	0.5 -2.0%	ReadyMix	★★★	★★	★★★
<b>DYNAMON EASY 21</b> Modified acrylic-based super-plasticising retardant	0.5 -2.0%	ReadyMix	★★★	★★★	★★
<b>DYNAMON EASY 31</b> Modified acrylic-based super-plasticising retardant	0.5 -2.0%	ReadyMix	★★★	★★★★	★



## CONVENTIONAL MULTI-PURPOSE SUPER-PLASTICISERS

FOR CONCRETE WITH GOOD WORKABILITY



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEFLUID IF328</b> Naphthalene-based super-plasticising accelerator	0.8 -2.1%	ReadyMix Precast	★★★	★★	★★★★
<b>MAPEFLUID N200</b> Naphthalene-based super-plasticiser	0.5 -1.5%	ReadyMix	★★★	★★	★★★
<b>MAPEFLUID N100</b> Naphthalene-based super-plasticiser	0.5 -1.5%	ReadyMix	★★★	★★★	★★
<b>MAPEFLUID R104</b> Naphthalene-based super-plasticising retardant	0.5 -1.5%	ReadyMix	★★★	★★★★	★
<b>MAPEMIX N60</b> Multi-dosage super-plasticiser	0.3 -1.2%	ReadyMix	★★	★★	★★
<b>MAPEMIX R64</b> Multi-dosage super-plasticising retardant	0.3 -1.2%	ReadyMix	★★	★★★	★

## SUPERPLASTICISERS WITH POZZOLANIC EFFECT

FOR HIGH-STRENGTH, WATERPROOF CONCRETE AND HIGH CHEMICAL RESISTANCE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEFLUID PZ500</b> Super-plasticiser in powder with silica fume	20 - 60 kg/mc	ReadyMix Site use	★★★★★	★★	★★★
<b>MAPEFLUID PZ504</b> Super-plasticising retardant in powder with silica fume	20 - 60 kg/mc	ReadyMix Site use	★★★★★	★★★★★	★★



## POZZOLANIC ACTION ADMIXTURE

FOR HIGH-STRENGTH, WATERPROOF CONCRETE AND HIGH CHEMICAL RESISTANCE

PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEPLAST SF</b> Silica fume	5 - 10%	ReadyMix/Site use Precast	★	★★★★★	★



## CONVENTIONAL MULTI-PURPOSE PLASTICISERS

FOR CONCRETE WITH GOOD WORKABILITY AND LOW HYDRATION HEAT



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEPLAST N10</b> Plasticiser	0.2 - 0.5%	ReadyMix Site use	★★	★★★	★
<b>MAPEPLAST R14</b> Plasticising retardant	0.2 - 0.5%	ReadyMix Site use	★★	★★★★	★



## SETTING AND HARDENING ACCELERATORS

### FOR QUICK STRIPPING OF CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DYNAMON HAA</b> Chloride-free hardening accelerator	1.0 - 3.0%	Precast Site use	★	★	★★★★
<b>ANTIFREEZE S (liquid)</b> Chloride-free hardening accelerator	0.75 -1.5%	ReadyMix Site use	★	★	★★★
<b>ANTIFREEZE S (powder)</b> Chloride-free hardening accelerator	1.0 -2.0%	ReadyMix Site use	★	★	★★★
<b>ANTIFREEZE</b> Setting accelerator with chlorides	1.0 -3.0%	ReadyMix Site use	★	★	★★★★

## PLASTICISERS FOR VIBRO-COMPRESSION AND EXTRUSION

FOR EASY COMPACTING, LOW ABSORPTION “DAMP EARTH” CONSISTENCY CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	PLASTICISING EFFECT	ABSORPTION REDUCTION	STRENGTH ACCELERATION
<b>VIBROMIX L1</b> Plasticiser	0.2 - 0.8%	Lightweight precast	★★★	★★	★
<b>VIBROMIX L2</b> Plasticising accelerator	0.2 - 0.8%	Lightweight precast	★★★	★★	★★★
<b>VIBROMIX L3</b> Water-repellent plasticiser	0.2 - 0.8%	Lightweight precast	★★★	★★★★	★
<b>VIBROMIX L4</b> Air-entraining plasticiser	0.2 - 0.8%	Lightweight precast	★★★★	★★	★
<b>VIBROMIX C1</b> High-quality plasticiser and accelerator	0.2 - 0.8%	Lightweight precast	★★★★	★★★	★★★★
<b>VIBROMIX C2</b> High-quality water-repellent plasticising accelerator	0.2 - 0.8%	Lightweight precast	★★★★	★★★★	★★★★
<b>VIBROMIX E</b> High-efficiency plasticiser	0.3 - 1.0%	Lightweight precast	★★★★	★★	★
<b>VIBROMIX P</b> High-efficiency plasticiser for extrusion	0.2 - 0.8%	Lightweight precast	★★★★	★★★★	★
<b>VIBROMIX S</b> High-efficiency waterproof plasticiser	0.2 - 1.2%	Lightweight precast	★★	★★★★	★



## SETTING AND HARDENING RETARDANTS

FOR CONCRETE WITH CONTROLLED SETTING TIMES AND LOW HYDRATION HEAT



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPETARD</b> Retardant with slight plasticising effect	0.2 - 0.5%	ReadyMix Site use	★★	★★★★	★
<b>MAPETARD SD2000</b> High-efficiency retardant	0.1 - 2.0%	ReadyMix Site use	★	★★★★★	★



## EXPANSIVE ADMIXTURES

FOR CONTROLLED-SHRINKAGE, DIMENSIONALLY-STABLE CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>EXPANCRETE</b> Expansive agent for concrete	5 - 8%	ReadyMix Site use	★	★	★★
<b>EXPANFLUID</b> Expansive agent for injected slurry	3 - 6%	Site use	★★★★	★★★★	★★

## SHRINKAGE REDUCING ADMIXTURES (SRA)

FOR CONTROLLED-SHRINKAGE, DIMENSIONALLY-STABLE CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPECURE SRA</b> Admixture to reduce hydraulic shrinkage	1 - 2%	ReadyMix Site use	★★	★	★★★★★
<b>MAPECURE SRA 25</b> Admixture to reduce hydraulic shrinkage	1 - 2%	ReadyMix	★★	★	★★★★★



## AIR-ENTRAINING AND FOAMING AGENTS

FOR CONCRETE RESISTANT TO FREEZING AND LIGHTWEIGHT CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPELAST PT1</b> Air-entraining agent for concrete and mortar	0.03 - 0.3%	ReadyMix Site use	★★	★	★
<b>MAPELAST PT2</b> Air-entraining agent for concrete and mortar	0.02 - 0.3%	ReadyMix Site use	★★	★	★
<b>MAPELAST LA (liquid)</b> Foaming agent and pumping aid	0.8 - 1.2 l/mc	ReadyMix Site use	★★	★	★
<b>MAPELAST LA Powder</b> Foaming agent and pumping aid	0.5 kg/mc	ReadyMix Site use	★★	★	★

## WATER-REPELLING AGENTS

FOR CONCRETE WITH LOW WATER ABSORPTION AND NO EFFLORESCENCE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	ABSORPTION REDUCTION	STRENGTH ACCELERATION
<b>IDROCRETE DM</b> Water-repelling agent for concrete and mortar	0.2 - 1%	ReadyMix/Site use	★	★★★★★	★

## ADMIXTURES TO IMPROVE NATURAL FINISHES

FOR CONCRETE WITH HIGHLY ATTRACTIVE FINISHES



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEPLAST FV</b> Admixture to eliminate surface blisters	0.3 - 0.7%	ReadyMix/Site use Precast	★	★	★



## VISCOSITY MODIFYING ADMIXTURES

FOR SELF-COMPACTING CONCRETE (SCC) AND TO MAKE CONCRETE EASIER TO PUMP



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPEPLAST PMX</b> Pumping aid	0.2 - 0.5%	ReadyMix/Site use Precast	★	★	★
<b>VISCOFLUID SCC/10</b> Viscosity modifying admixture for SCC	1.0 - 2.0%	ReadyMix/Site use Precast	★	★	★
<b>VISCOSTAR 3K</b> Viscosity modifying admixture for SCC with no fillers	0.3 - 2.5 l/mc	ReadyMix/Site use Precast	★	★	★

## ADMIXTURES FOR UNDERWATER CASTING

FOR CONCRETE CAST UNDERWATER WITH NO LEACHING



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	LEACHING REDUCTION	STRENGTH ACCELERATION
<b>MAPELAST UW</b> Anti-leaching admixture	5 - 10 kg/mc	ReadyMix Site use	★	★★★★★	★
<b>RESCON T</b> Anti-leaching admixture with plasticising effect	10 - 25 kg/mc	ReadyMix Site use	★★★★	★★★★★	★



## STRUCTURAL AND ANTI-SHRINKAGE FIBRES

FOR HIGHLY-TOUGH, LOW-SHRINKAGE CONCRETE



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	CRACKS REDUCTION
<b>MAPEFIBRE ST 24</b> Structural polymeric fibres	1 - 7 kg/mc	ReadyMix/Site use Precast	★	★	★★★★
<b>MAPEFIBRE ST 42</b> Structural polymeric fibres	1 - 7 kg/mc	ReadyMix/Site use Precast	★	★	★★★★
<b>MAPEFIBRE NS 12</b> Anti-shrinkage polymeric fibres	0.4 - 0.8 kg/mc	ReadyMix/Site use Precast	★	★	★★★★
<b>MAPEFIBRE NS 18</b> Anti-shrinkage polymeric fibres	0.4 - 0.8 kg/mc	ReadyMix/Site use Precast	★	★	★★★★

## PRODUCTS FOR RECYCLING AND REPAIR OPERATIONS

FOR RECYCLING WATER USED FOR WASHING AND CLEANING CEMENT MIXERS AND CEMENT TRUCKS

PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPECLEAN RECYCLER</b> Admixture for recycling water used for cleaning	0.1 kg/100 l	ReadyMix/Site use Precast			
<b>MAPECLEAN CONCRETE REMOVER</b> Product to remove deposits	50 - 100 g/mq	ReadyMix/Site use Precast			
<b>MAPECLEAN DEFENDER</b> Product to avoid the formation of deposits	20 - 50 g/mq	ReadyMix/Site use Precast			

## DEMOULDING AGENTS

FOR CORRECT STRIPPING OF FORMWORK AND AN EXCELLENT NATURAL FINISH



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>DMA 1000</b> Emulsifying stripping product for wood	10 - 30 g/mq	Precast Site use			
<b>DMA 2000</b> Multi-purpose, ready-to-use stripping product	20 - 40 g/mq	Precast Site use			
<b>DMA 3000</b> Vegetable oil-based, multi-purpose stripping product	15 - 25 g/mq	Precast Site use			



## SURFACE CURING COMPOUNDS

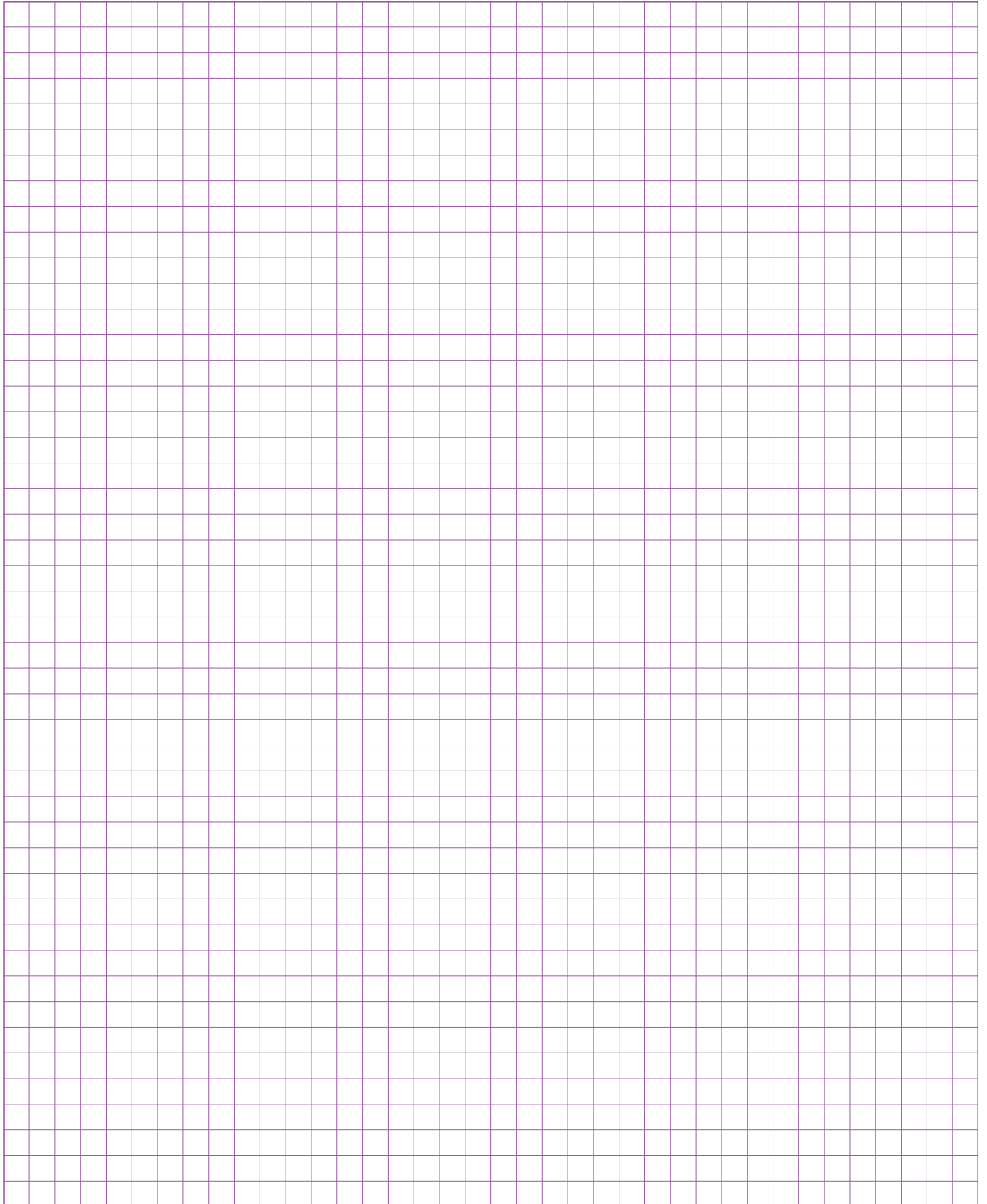
TO PROTECT SURFACES AGAINST THE EVAPORATION OF WATER



PRODUCT / DESCRIPTION	RECOMMENDED DOSAGE	MAIN APPLICATION	REDUCTION OF WATER	MAINTENANCE OF WORKABILITY	STRENGTH ACCELERATION
<b>MAPECURE E</b> Surface-film curing compound in watery emulsion	70 - 100 g/mq	Precast Site use			
<b>MAPECURE S</b> Solvent surface-film curing compound	100 - 110 g/mq	Precast Site use			
<b>MAPECURE CA</b> Surface-film curing compound, may be painted over	110 - 150 g/mq	Precast Site use			

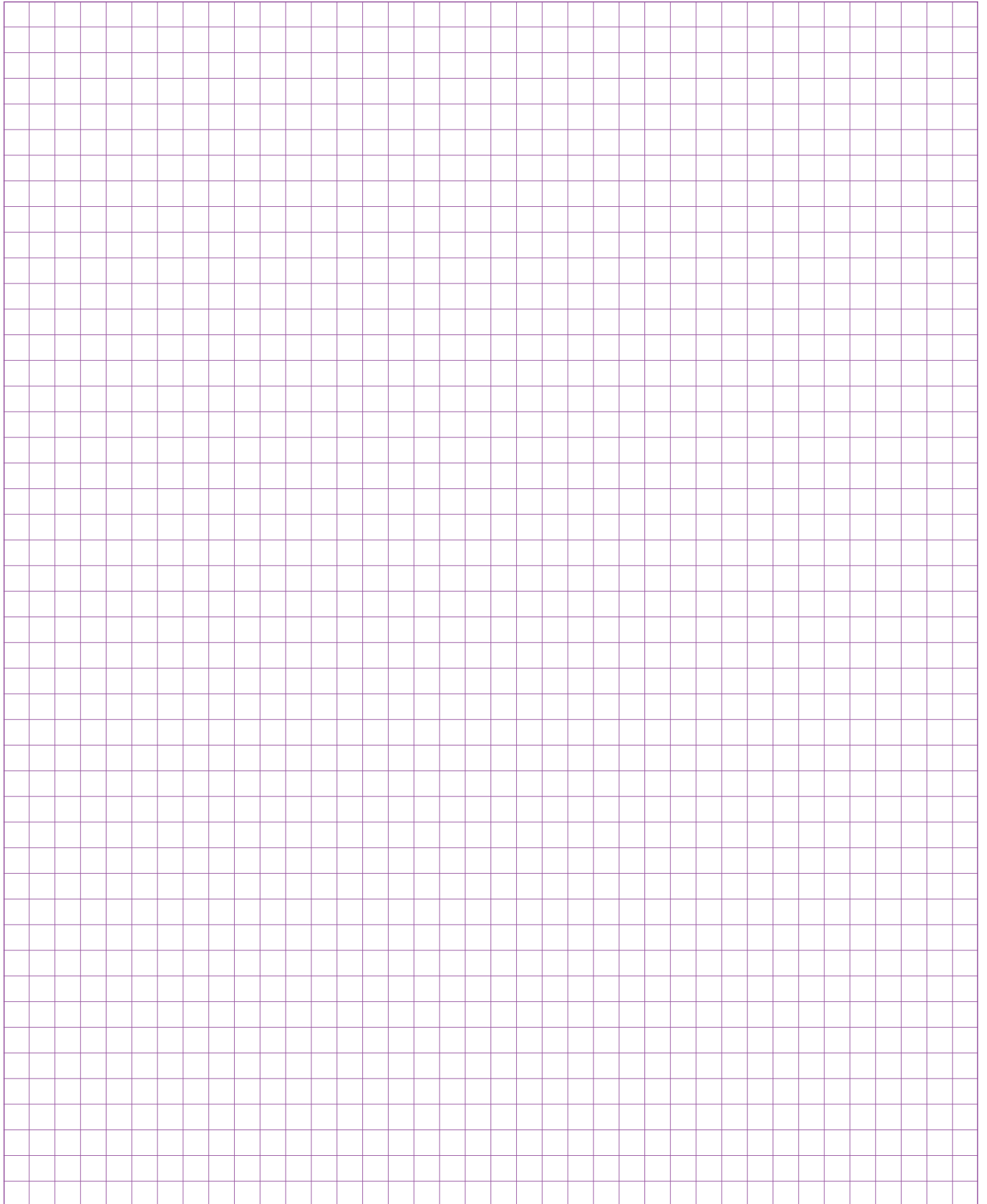
## NOTES

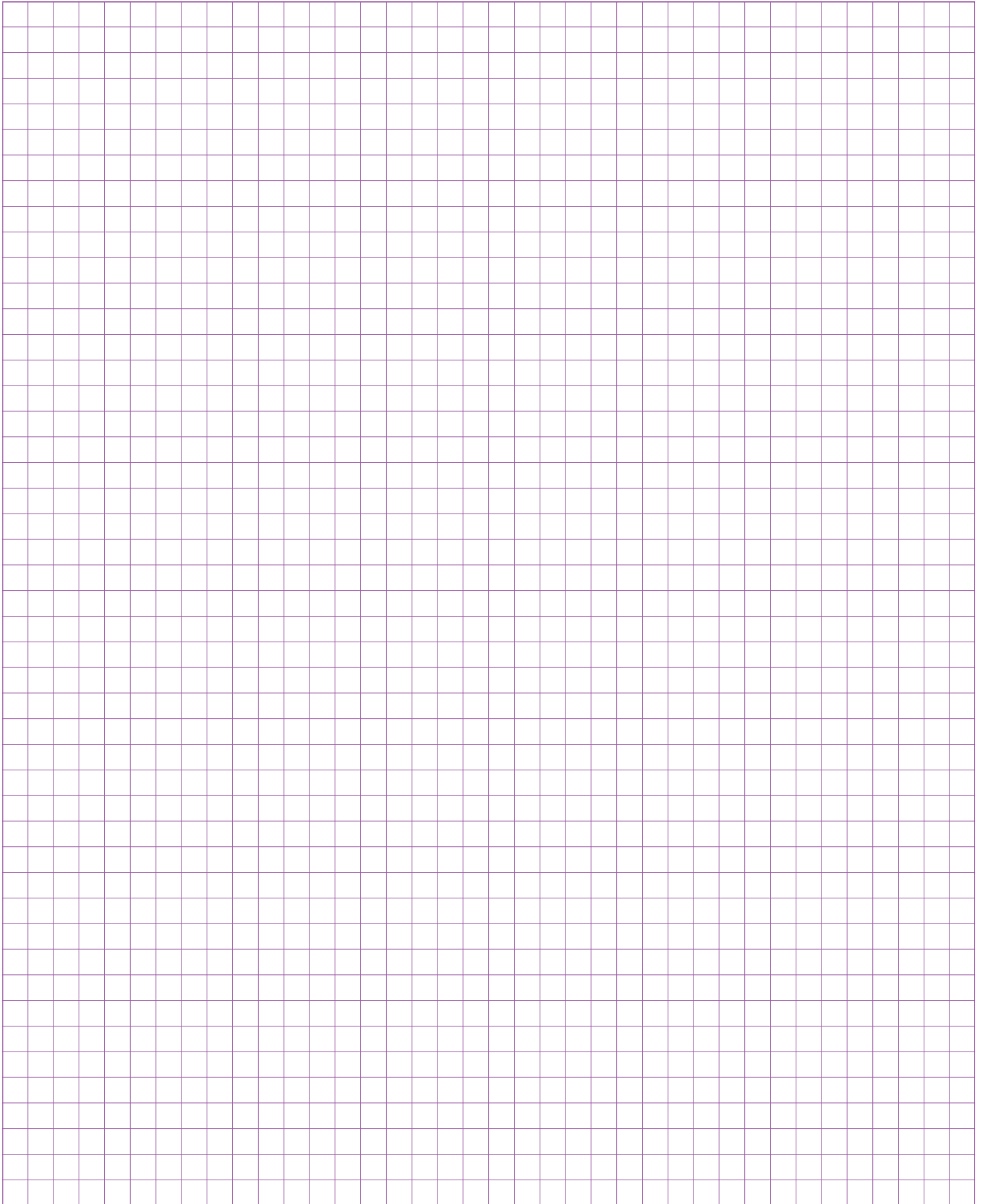
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## NOTES

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.





# Mapei Group



## Italy

### HEAD OFFICE

#### MAPEI SpA

Via Cafiero, 22 - 20158 Milan  
Tel. +39-02-37673.1  
Fax +39-02-37673.214  
Internet: <http://www.mapei.com>  
E-mail: [mapei@mapei.it](mailto:mapei@mapei.it)

### Plants

- Strada Provinciale 159  
20060 Robbiano di Mediglia (Milan)  
Tel. +39-02-906911  
Fax +39-02-90660575

- Via Mediana S.S. 148 km 81.3  
04100 Latina  
Tel. +39-0773-2548  
Fax +39-0773-250391

### Distribution centre SASSUOLO

Via Valle D'Aosta, 46  
41049 Sassuolo (Modena)  
Tel. +39-0536-803116  
Fax +39-0536-805255

### Office in Rome

Viale Libano, 28  
00144 Rome  
Tel. +39-06-5929211  
Fax +39-06-59290337

### Office in Lecce

Via Orsini del Balzo, 24  
73100 Lecce  
Tel. +39-0832-246551  
Fax +39-0832-248472  
E-mail: [ufficio.lecce@mapei.it](mailto:ufficio.lecce@mapei.it)



## Europe



**AUSTRIA - Mapei GmbH**  
Fräuleinmühle 2  
A - 3134 Nußdorf ob der Traisen  
Tel. +43-2783-8891 - Fax +43-2783-8893  
Internet: <http://www.mapei.at>  
E-mail: [office@mapei.at](mailto:office@mapei.at)  
Plant in Traismauer  
Distribution centres in Wien,  
Hall in Tirol and Graz



**BENELUX- Mapei Benelux SA/NV**  
Zoning Industriel - Rue de l'Avenir, 40  
B - 4460 Grâce-Hollogne  
Tel. +32-4-2397070  
Fax +32-4-2397071  
Internet: <http://www.mapei.be>  
E-mail: [mapei@mapei.be](mailto:mapei@mapei.be)  
For the Netherlands:  
Tel. +31-43-3510498  
Fax +31-43-3510499



**CROATIA - Mapei Croatia d.o.o.**  
Vinsnjec 18 - 10000 Zagreb  
Tel. +385-1-3647789  
Fax +385-1-3647787  
Internet: <http://www.mapei.com>  
E-mail: [mapei@mapei.hr](mailto:mapei@mapei.hr)



**CZECH REPUBLIC - Mapei spol. s r.o.**  
Smetanova 192 - 77211 Olomouc  
Tel. +420-585224580 - Fax +420-585227209  
Internet: <http://www.mapei.cz>  
E-mail: [info@mapei.cz](mailto:info@mapei.cz)  
Distribution centre in Prague



**FRANCE - Mapei France SA**  
Zone Industrielle du Terroir  
Avenue Léon Jouhaux, 29 - 31140 Saint Alban  
Tel. +33-5-61357305 - Fax +33-5-61357314  
Internet: <http://www.mapei.fr>  
E-mail: [mapei@mapei.fr](mailto:mapei@mapei.fr)  
Plants in Saint Alban and Montgru  
Saint Hilaire



**GERMANY - Mapei GmbH**  
Bahnhofsplatz 10 - 63906 Erlenbach  
Tel. +49-9372-98950  
Fax +49-9372-989548  
Internet: <http://www.mapei.de>  
E-mail: [mailto@mapei.de](mailto:mailto@mapei.de)  
Plant in Weferlingen



**GREAT BRITAIN - Mapei U.K. Ltd**  
Mapei House - Steel Park Road - Halesowen  
West Midlands B62 8HD  
Tel. +44-121-5086970  
Fax +44-121-5086960  
Internet: <http://www.mapei.com>  
E-mail: [sales@mapei.co.uk](mailto:sales@mapei.co.uk)  
Plant in Halesowen



**GREECE - Mapei Hellas SA**  
Papadiamantopoulou 24 C - 11528 Athens  
Tel. +30-210-7472983  
Fax +30-210-7472953  
Internet: <http://www.mapei.gr>  
E-mail: [mapeihellas@mapei.gr](mailto:mapeihellas@mapei.gr)



**HUNGARY - Mapei Kft**  
Sport Utca 2 - 2040 Budaörs  
Tel. +36-23-501667 - Fax +36-23-501666  
Internet: <http://www.mapei.hu>  
E-mail: [mapei@mapei.hu](mailto:mapei@mapei.hu)  
Plant in Sósút  
Distribution centres in Győr, Kaposvár  
and Miskolc



**NORWAY - Rescon Mapei AS**  
Vallsetvegen 6 - 2120 Sagstua  
Tel. +47-62-972000 - Fax +47-62-972099  
Internet: <http://www.resconmapei.com>  
E-mail: [post@resconmapei.no](mailto:post@resconmapei.no)  
Plant in Sagstua



**POLAND - Mapei Polska Spzoo**  
ul. Gustawa Eiffel'a, 14 - 44-109 Gliwice  
Tel. +48-32-7754450  
Fax +48-32-7754471  
Sales office:  
Chalubińskiego Street 8, 00-613 Warsaw  
Tel. +48-22-5954200  
Fax +48-22-5954202  
Internet: <http://www.mapei.pl>  
E-mail: [info@mapei.pl](mailto:info@mapei.pl)  
Plant in Gliwice



**PORTUGAL - Lusomapei S.A.**  
Business Parque Tejo XXI  
Estrada Nacional 1 - Km 19.65, Gelfas  
2600-659 Castanheira do Ribatejo  
Tel. +351 263 860 360  
Fax +351 263 860 369  
Internet: <http://www.mapei.pt>  
E-mail: [geral@mapei.pt](mailto:geral@mapei.pt)  
Plant in Anadia



**ROMANIA - Mapei Romania SRL**  
14 Gen. Ion Dragalina  
Str. Sector 5 - Bucarest  
Tel. +40-21-3117819  
Fax +40-21-3117821  
Internet: <http://www.mapei.ro>  
E-mail: [info@mapei.ro](mailto:info@mapei.ro)



**RUSSIAN FEDERATION - ZAO Mapei**  
Derbenevskaya nab., 7,  
building 4, 3-d floor  
Moscow 113114 Russian Federation  
Tel. +7-495-258-5520  
Fax +7-495-258-5521  
Internet: <http://www.mapei.ru>  
E-mail: [info@mapei.ru](mailto:info@mapei.ru)  
Plants in Stupino



**SLOVAK REPUBLIC - Mapei SK sro**  
Nádražná 39, 900 28 Ivánka pri Dunaji  
Tel. +421-2-53414 705 / 53414 702  
Fax +421-2-5363 2692  
Internet: <http://www.mapei.sk>  
E-mail: [office@mapei.sk](mailto:office@mapei.sk)



**SLOVENIA - Mapei doo**  
Kočevarjeva 2 - 8000 Novo Mesto  
Tel. +386-1-7865050/51  
Fax +386-1-7865055  
Internet: <http://www.mapei.si>  
E-mail: [mapei@mapei.si](mailto:mapei@mapei.si)  
Distribution centre in Grosuplje



**SPAIN - Ibermapei SA**  
Plaza Cataluña, 20 - 5ª Planta  
08002 Barcelona  
Tel. +34-93-3435050  
Fax +34-93-3024229  
Internet: <http://www.mapei.es>  
E-mail: [ibermapei@ibermapei.es](mailto:ibermapei@ibermapei.es)  
Plants in Amposta (Tarragona) and  
Cabanillas del Campo (Guadalajara)  
Distribution centres in Badalona  
(Barcelona), Onda (Castellón) and  
Marratxi (Mallorca)



**SWEDEN - Rescon Mapei AB**  
Gelbgjutarevägen 6 - 17148 Solna  
Tel. +46-8-52509080  
Fax +46-8-52509086  
Internet: <http://www.mapei.se>  
E-mail: [info@mapei.se](mailto:info@mapei.se)



**SWITZERLAND - Mapei Suisse SA**  
1642 Sorens / FR  
Tel. +41-26-9159000 - Fax +41-26-9159003  
Internet: <http://www.mapei.ch>  
E-mail: [info@mapei.ch](mailto:info@mapei.ch)  
**Plant** in Sorens



**UKRAINE - Mapei Ukraina LLC**  
01014, Città di Kiev  
Ulica Strutinskogo, 8 - 8 Etazh.  
Tel. +38-044-5024560, 5024563  
Fax +38-044-5024566  
Internet: <http://www.mapei.ua>  
E-mail: [mapei@mapei.ua](mailto:mapei@mapei.ua)

## Asia-Oceania



**AUSTRALIA - Mapei Australia Pty Ltd**  
12 Parkview Drive Archerfield  
Brisbane - Queensland 4108  
Tel. +61-7-3276 5000  
Fax +61-7-3276 5076  
Internet: <http://www.mapei.com.au>  
E-mail: [mapei@mapei.com.au](mailto:mapei@mapei.com.au)  
**Plant** in Brisbane



**CHINA - Mapei Construction Materials (Guangzhou) co. Ltd.**  
Hong Fu Loi International Building  
Rm. 2003-2004, Yan Jiang Zhong Road  
Guangzhou P.R. China  
Tel. (86-20) 83653489  
Fax (86-20) 83653481  
E-mail: [mapei-gz@mapei-gz.com](mailto:mapei-gz@mapei-gz.com)  
**Plant** in Conghua (Guangzhou)

**CHINA - Mapei Construction Materials (Shanghai) co. Ltd.**  
6, Lane 8999, Hunan Road,  
Nanhui District 201314  
Shanghai P.R. China  
Tel. (86-21) 58180808  
Fax (86-21) 58180909  
E-mail: [mapei-sh@mapei-sh.com](mailto:mapei-sh@mapei-sh.com)  
**Plant** in Nanhui (Shanghai)

**HONG KONG S.A.R. - Mapei China Ltd**  
Suite 15, L22 Office Tower, Langham Place  
8 Argyle Street, Mongkok,  
Kowloon, Hong Kong  
Tel. +852-21486816  
Fax +852-25121328  
Internet: <http://www.mapei.com.hk>  
E-mail: [mapei@mapei.com.hk](mailto:mapei@mapei.com.hk)



**MALAYSIA - Mapei (Malaysia) Sdn Bhd**  
PT 521, Batu 23 - Jalan Rawang  
Jalan Batang Berjuntai  
48000 Rawang - Selangor Darul Ehsan  
Tel. +60-3-60935799  
Fax +60-3-60915801  
Internet: <http://www.mapei.com.sg>  
E-mail: [mapei@tm.net.my](mailto:mapei@tm.net.my)  
**Plant** in Rawang (Kuala Lumpur)



**NEW ZEALAND - Mapei New Zealand**  
30 Fisher Crescent - Mt. Wellington  
Auckland, New Zealand  
Tel. +64-9-9211994 - Fax +64-9-9211993  
Internet: <http://www.mapei.co.nz>  
E-mail: [info@mapei.co.nz](mailto:info@mapei.co.nz)



**SINGAPORE - Mapei Far East Pte Ltd**  
28, Tuas West Road - 638383 Singapore  
Tel. +65-68623488  
Fax +65-68621012 / 68621013  
Internet: <http://www.mapei.com.sg>  
E-mail: [mapei@mapei.com.sg](mailto:mapei@mapei.com.sg)  
**Plant** in Singapore



**UNITED ARAB EMIRATES I.B.S. (Innovative Building Solutions) L.L.C.**  
P.O. Box 73869, Dubai, UAE  
**Plant** in Dubai



**VIETNAM - Mapei Vietnam Ltd.**  
Plot 8, Street No. 4,  
Northern Part of Chu Lai I.Z.  
Tam Hiep Commune  
Nui Thanh District - Vietnam  
Tel. (84-510) 565801-7  
Fax (84-510) 565800  
**Branch in Hanoi:**  
Tel. (84-4) 9287924-6  
E-mail: [mapeihn@mapei.com.vn](mailto:mapeihn@mapei.com.vn)  
**Branch in Danang:**  
Tel. (84-511) 3565001  
E-mail: [mapeidn@mapei.com.vn](mailto:mapeidn@mapei.com.vn)  
**Branch in Ho Chi Minh City:**  
Tel. (84-8) 8206103-4-6  
E-mail: [mapeihcm@mapei.com.vn](mailto:mapeihcm@mapei.com.vn)  
**Plant** in Chu Lai (Quangnam)

## The Americas



**ARGENTINA - Mapei Argentina SA**  
Rondeau 51, 1° floor, Wilde - Buenos Aires  
Tel. +54-11-42070009  
Fax +54-11-42171088  
Internet: <http://www.mapei.com.ar>  
**Plant** in Buenos Aires



**CANADA - Mapei Canada Inc**  
2900, Francis Hughes Avenue  
Laval - QUE H7L3J5  
Tel. +1-450-6621212  
Fax +1-450-6620444  
Internet: <http://www.mapei.com>  
**Plants** in Vancouver, Laval,  
Maskinongé and Toronto



**PUERTO RICO - Mapei Caribe Inc**  
Road 2 km 26.2 BO. Espinosa  
Dorado, Porto Rico 00646  
Tel. +1-787-270-4162  
Fax +1-787-270-4135  
Internet: <http://www.mapei.com>  
**Plant** in Dorado



**U.S.A. - Mapei Corp**  
1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
Tel. +1-954-246-8888 / +1-888-300-4422  
Fax +1-954-246-8800  
Internet: <http://www.mapei.com>  
**Plants** in Phoenix (AZ), Garland (TX),  
South River (NJ), Fort Lauderdale (FL),  
West Chicago (IL), Fredericksburg (VA),  
San Bernardino (CA)  
**Distribution centre** in Anaheim (CA)



**VENEZUELA - Mapei de Venezuela CA**  
Calle Orinco Torre D&D PB Lc 11-12  
Urb. Las Mercedes - 1071 Caracas  
Tel. +58-212-991-1797/+58-212-9919423  
Fax +58-212-991-7623  
Internet: <http://www.mapei.com>  
E-mail: [mapeivenezuela@hotmail.com](mailto:mapeivenezuela@hotmail.com)  
**Plant** in Caracas



**MAPEI SpA**

Via Cafiero, 22 - 20158 Milan - Italy

Tel. +39-02-37673.1

Fax +39-02-37673.214

Internet: [www.mapei.com](http://www.mapei.com)

E-mail: [mapei@mapei.it](mailto:mapei@mapei.it)