

6\$)(7<' \$7\$6+((7
(67(&(0 3\$67\$%

6(&7,21 ,GHQWLILFDWLRQ RI WKH VXEVWDQFH PL[WXUH DQG RI WKH FRP SDQ\ X

3URGXFW LGHQWLILHU

3URGXFW QDPH (67(&(0 3\$67\$%

5HOHYDQW LGHQWLILHG XVHV RI WKH VXEVWDQFH RU PL[WXUH DQG XVHV DG
,GHQWLILHG XVHV \$GKHVLPHVPHQWGHQSDPHVVRQQDOV

'HWDLOV RI WKH VXSSOLHU RI WKH VDIHW\ GDWD VKHHW

6XSSOLHU

7RNX\DPD WWD
Via Chizzalunga, 1,
36066 Sandrigo, Vicenza, Italy
TEL: +39-0444-659650
FAX: +39-0444-750345

&RQWDFW SHUVRQ KWWS ZZZ WRNX\DPD GHQWDO FRP WGF FRQWDFW KWPO
ODQXIDFWXUHU

7RNX\DPD 'HQWDO &RUSRUDWLRQ
7DLWRX FKRPH 7DLWRX NX 7RN\
-DSDQ

7(/
)\$;

(PHUJHQF\ WHOHSCRQH QXPEHU

(PHUJHQF\ WHOHSCRQH QXPEHU 0HGLFLQHV DQG 3RLVRQV ,QIRUPDWLRQ &HQWUH 1,
3KDUPDF\ 'HSDUWPHQW
5R\DO +RVSLWURO YHQRG HOIDVW
(PHUJHQF\ WHOHSCRQH
7HOHSCRQH
)D[
(PDGGUBVJCLU#ELFOIDVWVQKWW

6(&7,21 +D]DUGV LGHQWLILFDWLRQ

&ODVVLILFDWLRQ RI WKH VXEVWDQFH RU PL[WXUH

&ODVVLILFDWLRQ (&
3K\VLFDQ KD]DUGV1RW &ODVVLILHG
+HDOWK KD]DUGV 6NLQULW :(\H,UULW :6NLQV +
(QYLURQPHQWDO KD]DUGV &ODVVLILHG

/DEHO HOHPHQWV

3LFWRJUDP



6LJQDO ZRUG :DUQLQJ

+D]DUG VWDWHPHQWV &DXVHV VNLQ LUULWDWLRQ
+ 0D\ FDXVH DQ DOOHUJLF VNLQ UHDFWLRQ
+ &DXVHV VHULRXV H\H LUULWDWLRQ

3UHFDXWLRQDU\ VWDW\$PHLQWUHDWKLQJ YDSRXUV

3 :HDU SURWHFWLYH JORYHV SURWHFWLYH FORWKLQJ H\H
3 3 ,I VNLQ LUULWDWLRQ RU UDVK RFFXUV *HW PHGLFDO
3 3 ,I H\H LUULWDWLRQ SHUVLVWV *HW PHGLFDO DGylfH
3 'LVSrvH RI FRQWHQWV FRQWDLQHU LQ DFFRUGDQFH ZLW

&RQWDLQV

0(7+</ (7+</, '(1(% ,6 3+(1</ (1(2;< (7+\$1(' ,</2;<
(7+\$1(' ,</ % ,60(7+\$&5</ \$7((7+</ (1(' ,2;<' , (7+</ ' ,0(7+\$&5</
0(7+</ (7+</, '(1(% ,6> 3+(1</ (1(2;< +<'52;< 3523\$1(' ,</
,60(7+\$&5</ \$7(% (1=2</ 3(52;,' >
0(7+</3+(1</ ,0,12@% ,6(7+\$12/

6XSSOHPHQWU\ S UHFDXWLRQDU\ DPLQDWHG VNLQ WKRURXJKO\ DIWHU KDQGOLQ
VWDW\$PHLQWUHDWKLQJ

3 &RQWDLQDWHG ZRUN FORWKLQJ VKRXOG QRW EH DOORZ
3 3 ,) 21 6.,1 :DVK ZLWK SOHQW\ RI ZDWHU
3 3 3 ,) ,1 (<(6 5LQVH FDXWLRXVO\ ZLWK ZDWHU IRU V\H
FRQWDFW OHQVHV LI SUHVHQW DQG HDV\ WR GR &RQWLQXH
3 6SHFLILF WUHDWPHQW VHH PHGLFDO DGylfH RQ WKLV O\H
3 3 ,I VNLQ LUULWDWLRQ RFFXUV *HW PHGLFDO DGylfH
3 3 7DNH RII FRQWDLQDWHG FORWKLQJ DQG ZDVK LW EH

2WKKIDJ DUGV

7KLSURGGXFFRFRQVDDLVXE V W FODHVLVH V 3Y%

6 (&7,21 &RPSRVLWLRQDWRQHGHLHQWV

OLWXUHV

SILICA-ZIRCONIA FILLER	60-80%
CAS number: ^ EC number^ REACH Registration No.: 910-388-1 / 01-2119860534-36-0000	
Substance not classified as hazardous	
(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXY-2,1-ETHANEDILOY-2,1-ETHANEDIYL) BISMETHACRYLATE	5-15%
CAS number: 41637-38-1 EC number: 609-946-4	
Skin Irrit.2 - H315, Eye Irrit.2 - H319, Skin Sens.1 - H317, STOT SE 3 - H335	
2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE	5-15%
CAS number: 109-16-0 EC number: 203-652-6	
Skin Irrit.2 - H315, Eye Irrit.2 - H319, Skin Sens.1 - H317	
(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXY (2-HYDROXY-3,1-PROPANEDIYL) BISMETHACRYLATE	1-5%
CAS number: 1565-94-2 EC number: 216-367-7	
Skin Sens.1 - H317, Aquatic Chronic 3 - H412	
SILICON DIOXIDE	1-5%
CAS number: 112945-52-5 EC number.: 601-216-3	
Substance not classified as hazardous	

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6NLQ FRQWDFW 6NLQ LUULWDWLRQ \$OOHJLF UDVK
(\H FRQWDFW 0D\ FDXVH VHYHUH H\H LUULWDWLRQ

,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWHQWLRQ DQG VSHFLDO WUHDV
1RWHV IRU WKH GRIFWRS SHFLILF UHFRPPHQGDWLRQV

6(&7,21)LUHILJKWLQJ PHDVXUHV

([WLQJXLVKLQJ PHGLD
6XLWDEOH H[WLQJXLVKLQJ PHGLD DFRKRO UHVLVWDQW IRDP FDUERQ GLR[L
6SHFLDO KD]DUGV DULVLQJ IURP WKH VXEVWDQFH RU PL[WXUH
6SHFLILF KD]DUGV ,Q FDVH RI ILUH WR[LF JDVHV PD\ EH IRUPHG
+D]DUGRXV FRPEXVWLRQ DO GHFRPSRVLWLRQ RU FRPEXVWLRQ PD\ OLEHUDWH FD
SURGXFWV YDSRXUV

\$GYLFH IRU ILUHILJKWHUV

3URWHFWLYH DFWLRQV GXULQJ WKLQJ ILUH JDVHV RU YDSRXUV .HHS XS ZLQG W
ILUHILJKWLQJ ILUH DUHD LI LW FDQ EH GRQH ZLWKRXW ULVN &RQWDLQHUV
ZLWK ZDWHU 1R VPRNLQJ VSDUNV IODPHV RU RWKHU VRXUF
6SHFLDO SURWHFWLYH HTXLSPHQW SUHVXUH VHOI FRQWDLQHG EUHDWKLQJ DSS
IRU ILUHILJKWHUV FORWKLQJ

6(&7,21 \$FFLGHQWDO UHOHDVH PHDVXUHV

3HUVRQDO SUHFDXWLRQV SURWHFWLYH HTXLSPHQW DQG HPHUJHQF\ SURFH
3HUVRQDO SUHFDXWLRQV SURWHFWLYH FORWKLQJ DV GHVFULEHG LQ 6HFWLRQ R
VSDUNV IODPHV RU RWKHU VRXUFHV RI LJQLWLRQ QHDU VSLQ

(QYLURQPHQWDO SUHFDXWLRQV

(QYLURQPHQWDO SUHFDXWLRQV DUJH LQWR GUDLQV RU ZDWHUFRXUVHV RU RQWR
0HWKRGV DQG PDWHULDO IRU FRQWDLQPHQW DQG FOHDQLQJ XS
0HWKRGV IRU FOHDQLQJ DOO VRXUFHV RI LJQLWLRQ 1R VPRNLQJ VSDUNV
VSLOODJH 3URYLGH DGHTXDWH YHQWLODWLRQ .HHS FRPEXV
\$EVRUE LQ YHUPFLXOLWH GU\ VDQG RU HDUWK DQG SODFH L
HQWHULQJ GUDLQV VHZHUV RU ZDWHUFRXUVHV 8VH RQO\ QR

5HIHUHQFH WR RWKHU VHFWRQV

5HIHUHQFH WR RWKHU VHFWRQV SRVDO VHH 6HFWLRQ

6(&7,21 +DQGOLQJ DQG VWRUDJH

3UHFDXWLRQV IRU VDIH KDQGOLQJ

8VDJH SUHFDXWLRQV KDQGOLQJ VKRXOG RQO\ WDNH SODFH LQ ZHOO YHQWLOD
RSHQ IODPH *RRG SHUVRQDO K\JLQH SURFHGXUHV VKRXOG
DQ\ RWKHU FRQWDLQDWHG DUHDV RI WKH ERG\ ZLWK VRDS D
7DNH DQ\ SUHFDXWLRQ WR DYRLG PL[LQJ ZLWK FRPEXVWLEOH

&RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV

6WRUDJH SUHFDXWLRQV SRVDO IURP KHDW KRW VXUIDFHV VSDUNV RSHQ IODPHV
VPRNLQJ 3URWHFW IURP VXQOLJKW 6WRUH DW WHPSHUDWXU

6SHFLILF HQG XVH V

The identified uses for this product are detailed in Section 1.2.

6(&7,21 ([SRVX&RQWSHROVSCBWHFWLRQ

&RQVSDRDPHWHUV

2FFXSDWHLB&D&UPLWV

7,7\$1,8'02;,'(

/RQWHHPSRV&UPLKRXUS :(/ PJPu UHVSLG&EWH

/RQWHHPSRV&UPLKRXUS :(/ PJPu LQKD&G&EWH

%(1=2<3(52;,'(

/RQWHHPSRV&UPLKRXUS :(/ PJPu

:(/ :RUNSQ&FRHVXUPLW

([SRVX&RQWUROV

\$SSURSHU&D&HHUL&QURYD&GHTX&D&H&D&D&OR&H&D&X&V&W&L&D&E&W&L&B&R&H&FFXSDWHL&SR&DX&U&H&FRQWUROV OLPIL&W&K&S&UR&GR&U&W&U&H&G&L&H&Q&W&V

(\HID&S&UR&WH&FW&LR&Q&K&H&R&O&O&S&L&R&W&H&M&V&L&E&D&R&U&K&H&P&L&V&S&O&D&R&K&J&O&H&V

SURWHFWLRQ :HDSURWH&M&R&Y&H&V

2WK&V&H&D&D&B&R&G\ :HDDSSUR&S&U&L&D&W&M&R&Q&H&Y&D&H&O&S&R&V&V&L&E&M&O&I&E&W&Q&W&D&F&W

+JLH&D&H&D&V&X&U&H&V 8V&H&H&Q&J&L&Q&H&F&R&Q&W&U&R&H&G&X&D&F&R&Q&W&D&P&L&V&O&S&H&W&L&P&L&Q&H&V&L&S&E&R&O&H&U&M&H&U&R&Y&L&G&H&H&\&H&Z&D&W&W&D&V&Q&S&D&I&H&M&K&R&Z&H&U&Q&R&W&P&R&N&L&E&R&L&D&U&H&O&U&R&P&S&U&M&O&P&R&D&Y&O&H&F&O&R&W&K&K&D&H&F&R&P&F&R&Q&W&D&P&L&O&D&W&S&H&G&P&S&W&O&R&D&S&Q&Z&D&W&H&U&N&E&O&H&F&R&P&H&V&F&R&Q&W&D&P&L&O&D&W&M&G&H&Q&S&H&D&F&Z&R&U&M&K&I&D&O&M&S&H&I&R&H&U&W&L&E&R&N&D&O&S&V&L&W&K&H&W&R&L&O&H&V&L&G&E&R&H&V&O&U&L&Q&M&P&R&N&H

5HVSLUS&U&R&W&H&FW&LR&Q&H&Q&W&L&O&D&D&L&G&H&Q&X&D&L&W&H&D&E&O&S&H&L&S&D&R&W&U&R&F&X&W&E&N&F&Z&O&U&Q

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6(&7,21 3K\VL&D&D&KHPL&F&D&R&S&H&U&W&L&H&V

.QIRUP&V&E&D&R&Q&L&V&L&F&O&S&K&H&P&L&F&D&R&S&H&U&W&L&H&V

\$SSH&D&U&D&Q&F&H 3&D&V&W&H

&R&O&R&X&U &O&H&Z&K&L&W&E&U&R&Z&Q

2&G&R&X&U &K&D&U&D&F&W&H&U&L&V&W&L&F

2&G&R&X&U&K&U&H&V&K&R&O&G 1&R&W&Y&D&L&O&D&E&O&H

S+ 1&R&W&Y&D&L&O&D&E&O&H

0&H&O&V&S&R&L&Q&W 1&R&W&Y&D&L&O&D&E&O&H

,&Q&L&W&E&D&S&I&R&O&D&Q&J&H&R&W&Y&D&L&O&D&E&O&H

)&O&D&S&R&L&Q&W 1&R&W&S&S&O&L&F&D&E&O&H

(&Y&D&S&R&U&D&W&W&R&H&Q 1&R&W&Y&D&L&O&D&E&O&H

(&Y&D&S&R&U&D&D&V&L&R&R&U 1&R&W&Y&D&L&O&D&E&O&H

)&O&D&P&P&D&E&V&R&O&L&M&V 1&R&W&Y&D&L&O&D&E&O&H

8&S&S&H&O&R&Z&I&H&O&D&P&P&D&E&L&O&L&W&W&Y&D&L&O&D&E&O&H

H[S&O&R&O&L&F&H&W&V

9&D&S&R&S&W&H&V&V&X&U&H 1&R&W&Y&D&L&O&D&E&O&H

9DSRXU GHQVLW\ 1RW DYDLODEOH
5HODWLYH GHQVLW\RW GHWHUPLQHG
6ROXELOLW\ LHV 1RW DYDLODEOH
3DUWLWLRQ FRHILFLWQW DLODEOH
\$XWR LJQLWLRQ W H R S H D Y D L O D E O H
'HFRPSRVLWLRQ 7HFRSHDWXOD EOH
9LVFRVLW\ 1RW DYDLODEOH
([SORVLYH SURSHUWLV D Y D L O D E O H
2[LGLVLQJ SURSHUWLV D Y D L O D E O H

2WKHU LQIRUPDWLRQ
2WKHU LQIRUPDWLRQW DYDLODEOH

6(&7,21 6WDELOLW\ DQG UHDFWLYLW\

5HDFWLYLW\
5HDFWLYLW\ 7KHUH DUH QR NQRZQ UHDFWLYLW\ KD]DUGV DVVRFLDWHG ZLV
RI WKLV VHFWRQ IRU IXUWKHU GHWDLOV

&KHPLFDO VWDELOLW\
6WDELOLW\ 6WDEOH XQGHU WKH SUHVFULEHG VWRUDJH FRQGLWLRQV
3RVVLELOLW\ RI KD]DUGRXV UHDFWLRQV

3RVVLELOLW\ RI KD]DUGRXV
UHDFWLRQV
&RQGLWLRQV WR DYRLG
&RQGLWLRQV WR DYRLG DZD\ IURP KHDW VSDUNV DQG RSHQ IODPH 3URWHFW D.
,QFRPSDWLEOH PDWHULDOV

0DWHULDOV WR DYRLG FRPEXVWLEOH PDWHULDOV 6WURQJ UHGXFQJ DJ
+D]DUGRXV GHFRPSRVLWLRQ SURGXFWV
+D]DUGRXV GHFRPSRVLWLRQ GHFRPSRVLWLRQ RU FRPEXVWLRQ PD\ OLEHUDWH FD
SURGXFWV YDSRXUV &DUERQ PRQR[LGH &2 &DUERQ GLR[LGH &2

6(&7,21 7R[LFRORQLFDWLRQ

,QIRUPDWLRQ FRORILFDWLRQ
5RXWV SRVXUH 6NLQH V, QJHVWQRQD WIDRQKI FSWW HFWLRQ
\$FXWR[LFLWDO
1RWV D 1R DYDLODEOH
\$FXWR[LFLWLPDO
1RWV D 1R DYDLODEOH
\$FXWR[LFLWKDODWLRQ
1RWV D 1R DYDLODEOH
6NLQRUU RVLRLQ DWLRQ
6NLQRUU RVLRLQ DWLRQ VHWLQ ULWDWLRQ

\$QLPDO GDWD 1RW DYDLODEOH

6HULRXV H\H GDPDJH LUULWDWLRQ

6HULRXV H\H GDPDJH LUULWDWLRQ H\H LUULWDWLRQ

5HVSLUDWRU\ VHQVLWLVDWLRQ

5HVSLUDWRU\ VHQVLWLVDWLRQ DEOH

6NLQ VHQVLWLVDWLRQ

6NLQ VHQVLWLVDWLRQ QFDXVH DQ DOOHUJLF VNLQ UHDFWLRQ

*HUP FHOOPXWDJHQLFLW\

*HQRWR[LFLW\ LQKWLWYRDLODEOH

*HQRWR[LFLW\ LQKWLWBYDLODEOH

&DUFLQRJHQLFLW\

&DUFLQRJHQLFLW\ 1RW DYDLODEOH

, \$5& FDUFLQRJHQLFLW\ RI WKH LQJUHGLHQWV DUH OLVWHG RU H[HPSW

173 FDUFLQRJHQLFLW\ RI WKH LQJUHGLHQWV DUH OLVWHG RU H[HPSW

5HSURGXFWLYH WR[LFLW\

5HSURGXFWLYH WR[LFLW\ DYDLODEOH

5HSURGXFWLYH WR[LFLW\ DYDLODEOH

GHYHORSHPHQW

6SHFLILF WDUJHW RUJDQ WR[LFLW\ VLQJOH H[SRVXUH

6727 VLQJOH H[SRVXUH DYDLODEOH

6SHFLILF WDUJHW RUJDQ WR[LFLW\ UHSHDWHG H[SRVXUH

6727 UHSHDWHG H[SRVXUH DYDLODEOH

\$VSLUDWLRQ KDJDUG

\$VSLUDWLRQ KDJDUG W DYDLODEOH

7,7\$1,802;,'(

\$FXWR[LFLW\ KDODWLRQ

\$7(LQKDODWLRQ

GXVPLWVWJ

&DUFLQRJHQLFLW\

, \$5& FDUFLQRJHQLFLW\ URXS 3 RVV LFDOFLQ RUKPLDFQV

173 FDUFLQRJHQLFLW\ WRQDEOLF MSHDKKP DFDUFLQRJHQ

26+ \$&DUFLQRJHQLFLW\ VVWHG

%(1=2<3(52;,'(

&DUFLQRJHQLFLW\

, \$5& FDUFLQRJHQLFLW\ URXS 1 R WODVVLD WDEVDUFLQRJHQ

173 FDUFLQRJHQLFLW\ WRQDEOLF MSHDKKP DFDUFLQRJHQ

26+ \$&DUFLQRJHQLFLW\ VVWHG

6(&7,21 (FRORJQFBOPDWLRQ

7R[LFLW\

\$FXWR[LFLWK 1RWDYDLODEOH

\$FXWR[LFLTKDWLF 1RWDYDLODEOH

LQYHUUWHEUDWHV

\$FXWR[LFLTKDSDVDFQWRWDYDLODEOH

3HUVLVVWQGHJUDGDELOLW\

3HUVLVVWQGHJUDGDELOLWDLDEOH

%LRDFFXPSRQVWQWHLDO

%LRDFFXPSRQVWQWHLDOVDLORDEORHDFFXPXODWLRQ

3DUWEMHLRQFLHQW 1RWDYDLODEOH

0RELOQWLO

0RELOLW\ 1RLQIRUPDWLRODEOH

5HVXSRQVWQGH3Y%VHVHVPHQW

5HVXSRQVWQGH3Y% 7KLSURGXFRWRFRQWDDVQEVWFODHVLBLH3Y%
DVVHVPHQW

2WKDQYHUMHFVW

2WKDQYHUMHFVW 1RMQRZQ

6(&7,21 'LVSRVDO FRQVLGHUDWLRQV

:DVWH WUHDWPHQW PHWKRGV

'LVSRVDO PHWKRGV LVSRVH RI ZDVWH WR OLFHQVHG ZDVWH GLVSRVDO VLWH LQ
ORFDO :DVWH 'LVSRVDO \$XWKRULW\

6(&7,21 7UDQVSRUW PDWLRQ

*HQHUDO 1RW UHJXODWHG

81 QXPEHU

1RW DSSOLFDEOH

81 SURSHU VKLSSLQJ QDPH

1RW DSSOLFDEOH

7UDQVSRUW KDJDUG FODVV HV

1RW DSSOLFDEOH

3DFNLQJ JURXS

1RW DSSOLFDEOH

(QYLURQPHQWDO KDJDUGV

(QYLURQPHQWDO\ KDJDUGRXV VXEVDQFH PDULQH SROOXWDQW
1R

6SHFLDO SUHFDXWLRQV IRU XVHU

1RW DSSOLFDEOH

